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H. Greene
1979-1981

Catalogue #825-1124

Journal

1979 Calif: San Bernadino, Riverside, Orange,
San Diego, Contra Costa, Tulare Cos.

1980 Calif: Mendocino, Sonoma Cos.
Peru
Chile

1981 Calif: Contra Costa, Napa, San Bernadino,
Inyo, Kern, Alameda, San Joaquin Cos.
Oregon: Lake Co.
Calif: San Bernadino, Contra Costa Cos.

Greene, H. W.
1979

100 m E. Pt. Pinole Regional Park, Richmond, Contra Costa Co., California, 8 April 1979

825 Diadophis punctatus
826 " "

6 mi W. Morato, Marin Co., California
7 April 1979, J. J. Arnold

827 Diadophis punctatus
828 " "
829 " "
830 " "

100 m E. Pt. Pinole Regional Park, Richmond
Contra Costa Co., California 22 April 1979

831 Diadophis punctatus

Co. Hwy Y, 3 mi S. jct Y & St Hwy 76 (which is 3 mi W. Reed Spring), Stone Co., Missouri
27 March 1979, H. Bradley Schaffer

832 Diadophis punctatus

833 *Ambystoma gracile*

834 *Contia tenuis*

835 *Crotalus scutulatus* fresh DOR
73 g, 463 mm SV, 30 mm tail

836 *Gambelia wislizeni*
Pisgah Crater, San Bernardino Co., California
Coll. 4 May 1979, H. W. Greene et al., died 10 May 79

837 *Rana catesbeiana* (+ ? *Microtus*)
Lagoons near E. entrance, Briones Regional Park,
Contra Costa Co., California, 18 May 79

838 *Diadophis punctatus*
2 mi N. Superior, Pinal Co., Arizona
15 May 1978 Andris Zvirgzdins
killed for tissue 19 June 1979

839 *Sceloporus magister*
63.5 g, SV113, tail 92+6
≈.5 mi N. 20 Mule Team Pkway on Mojave-
Randsberg Road, Kern Co., California
24 June 1979

840 *Crotalus cerastes*
34.0 g
1.9 mi WNW Randsburg on Redrock-Randsburg Rd.,
Kern Co., California
23 June 1979 (AOR ≈ 9:30 PM)

841 *Phyllorhynchus decurtatus*
25.5 g SV 365 tail 101
3.7 mi W. Neuralia Rd on Phillips Rd
(NW of California City), Kern Co., California
23 June 79 (AOR ≈ 11:30 PM)

842 *Rhinocheilus lecontei*
4 mi N Cal City, Kern Co., California
13 May 1979 K. Tollestrup DOR

843 *Sceloporus magister*
4 mi N. Cal City, Kern Co., California
23 April 1979 K. Tollestrup DOR

844 *Rhinocheilus lecontei*
4 mi N. Cal City, Kern Co., California
22 June 1979 H. W. Greene DOR

845 *Callisaurus draconoides*
≈ 5 mi NE Cal City on Twenty Mule Team Parkway,
Kern Co., California
5 June 1979 (died 23 June 79) K. Tollestrup

846 *Arizona elegans*
Entrance to George Air Force Base, Adelanto,
San Bernardino Co., California
24 June 1979 (AOR, DOR) H. W. Greene

847 *Phyllorhynchus decurtatus*
33.0 mi NNW Yucca Valley on Old Woman Springs
Rd., San Bernardino Co., California
24 June 1979 (DOR) H. W. Greene

848 *Crotalus cerastes*
24.2 mi NNW Yucca Valley on Old Woman Springs
Rd., San Bernardino Co., California
24 June 1979 (DOR) H. W. Greene

849 Chionactis occipitalis
21.4 mi NNW Yucca Valley on Old Woman
Springs Rd., San Bernardino Co., California
24 June 1979 (DOR) H. W. Greene

850 Crotalus cerastes
20.7 mi NNW Yucca Valley on Old Woman
Springs Rd., San Bernardino Co., California
24 June 1979 (DOR) H. W. Greene

851 Crotalus cerastes
20.7 mi NNW Yucca Valley on Old Woman
Springs Rd., San Bernardino Co., California
24 June 1979 (AOR) H. W. Greene

852 Pituophis melanoleucus
3.6 mi N California City Blvd on
Neuralia Rd., Kern Co., California
27 June 1979 (DOR) H. W. Greene

853 Crotalus scutulatus
2.9 mi N. California City Blvd. on
Neuralia Rd., Kern Co., California
27 June 1979 (DOR) H. W. Greene

854 Crotalus cerastes
3 mi N. California City Blvd., 1 mi W
Mojave-Randsberg Rd., Kern Co., California
27 June 1979 (AOR) H. W. Greene

855 Pituophis melanoleucus
.5 mi N Cameron Rd. on Tehachapi Willow
Springs Rd., Kern Co., California
26 June 1979 (AOR) H W Greene
Fresh feces contained rodent

856 Rhinocheilus lecontei
3.4 mi S Phillips Rd on Hwy 14,
Kern Co., California
26 June 1979 (AOR) H. W. Greene

Dendrophora [illegible] 26 July 79

856-860 Flynn Creek

861 - [illegible] Co. DBW tag

862 - Shasta - Seib

863 - Pinole 10 March 79

864 - Russian R., P. Balfour

865 - 6 mi E. Flynn Cr. Rd on Orr Rd

866 - Highland - JJS tag

867 - TJP 16842

868 - [illegible] 2 June 79

869-71 - 4.2 mi SE Hwy 1 (Yorkville)

872 - RLS 5733

873 - TJP tag

874-6 SE Navarro

877 - [illegible], [illegible] Co., 36.6 rd mi NSW Murphys, 3 Nov 79

878 - [illegible], Calaveras Co. 2.4 rd mi S. Murphys, 3 Nov 79

Greene, H.

1980

18 April — Skaggs Springs, Sonoma Co., California

880 *Crotalus viridis* – had eaten HWG881

881 *Sceloporus occidentalis*

882 *Rana boylei*

883 *Lampropeltis getulus*

884 *Crotalus viridis* – 1st large adult

885 " " – 2nd " " see addendum 20 April

886 " " – 3rd smaller adult see addendum after 20 April 393.5 g 770+48

887 *Diadophis punctatus* 9.8 g 347+73

19 April — 1.7 mi N. Hwy 128 on Flynn Creek Rd, Mendocino Co., California

888 *Diadophis punctatus* 8.0 g 320+85

6.1 mi E. of Flynn Creek Rd. on Orr Springs Rd., Mendocino Co., California

889 *Charina bottae* 34.3 g 410+63 mm

890 *Sceloporus occidentalis* – ~~disgor~~ removed from 889

891 *Coluber constrictor* 7.7 g 242+75 mm

892 *Thamnophis elegans* 59.0 g 500+160 mm

893 " " 3.3 g 190+68

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Greene, H.

1980

19 April Dark Gulch, 1 mi. N. Albion, Mendocino Co., California

894 Thamnophis elegans 37.1 g 365+129 mm
895 Rana aurora

20 April 9.1 mi E. Flynn Creek Rd. on Orr Springs Rd., Mendocino Co., California

896 Thamnophis couchi 42.4 - 6.4 = 36.0 g 421+125 mm
897 Diadophis punctatus - disgorged 898 & 899
898 Contia tenuis - disgorged by 897
899 " " - " " 897

10.9 mi WSW Hwy 101 on Hwy 253, Mendocino Co., California

900 Diadophis punctatus 3.5 g 225+60
901 Batrachoseps attenuatus disgorged by 900
902 Lampropeltis getulus 10.3 g 290+44

4.5 mi S. Hwy 253 on Hwy 128, Mendocino Co., California

903 Thamnophis sirtalis
904 Bufo boreas disgorged by 903

28 April 13 mi W. El Centro on Hwy 80, Imperial Co., California
905 Crotalus cerastes adult, just hit.

Greene, H.
1980

28 April 18.2 mi E Hwy 2 on Hwy 98, Imperial Co., California
906 Crotalus cerastes adult, DOR since last night (?).

24 mi W. El Centro on Hwy 80, Imperial Co., California
907 ~~24.3 mi W. El Centro~~ Crotalus cerastes

29 April 0.4 mi E of Hwy 111 on Hwy 78, Brawley, Imperial Co., California
908 Bufo woodhousei - hopping on road and hit by truck behind me.

30 April Sentenac Canyon, 3.3 mi N of Hwy 2 on Hwy 78, San Diego Co., California
909 Lichanura trivirgata DOR 1325 hrs.

Dunes ≈ 5 mi E. of Borrego Springs, San Diego Co., California
910 Crotalus cerastes - coiled under board.

Split Mtn. Rd., 2.2 mi SSE Ocotillo Wells, San Diego Co., California
911-913 Dipsosaurus dorsalis juveniles
914 Dipsosaurus dorsalis adult ♂

1 May Dunes ca. 5 mi E. Borrego Springs, San Diego Co., California
915 Urosaurus graciosus
916-917 Dipsosaurus dorsalis adults
918-919 Dipsosaurus dorsalis juveniles
920-922 Uma ~~notata~~ small adults
923-926 Uma notata large adults
927 Uma notata small specimen (died in sack)

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1980

2 May Dunes ca. 5 mi E. Borrego Springs, San Diego Co., California

928-930 *Urosaurus graciosus* - 2 ♂♂, 1 ♀

5.4 mi W. Imperial Co. line on Hwy 22, San Diego Co., California

931 *Phrynosoma platyrhinos*

0.9 mi SW Washington St. Exit on Hwy 10, Riverside Co., California

932 *Pituophis melanoleucus*

2 mi SW Hwy 111 on Snow Creek Rd., Riverside Co., California

933-934 *Petrosaurus mearnsi*

935-937 *Sceloporus orcutti*

1.3 mi SW Hwy 111 on Snow Creek Rd., Riverside Co., California

938 *Sceloporus magister* juvenile.

Jct. Washington ~~Ave~~ & 38th Street, Riverside Co., California

939 *Coleonyx variegatus*

11.3 mi NNW of Hwy 10 in Indio on Dillon Rd., Riverside Co., California

940 *Crotalus cerastes* juvenile.

1.8 mi NNW of Hwy 10 in Indio on Dillon Rd., Riverside Co., California

941 *Crotalus cerastes* adult.

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1980

3 May Pisgah Crater, San Bernardino Co., California

942 Cnemidophorus tigris

943 Callisaurus draconoides

944 Crotalus mitchelli - Pres. 17 April 1981 - did not feed in captivity. 485g, 850+55 mm when preserved.

945 Phrynosoma platyrhinos

30.9 mi (by rd.) NW Twentynine Palms on Amboy Rd., San Bernardino Co., California

946 Chionactis occipitalis

27.8 mi (by rd.) NW Twentynine Palms on Amboy Rd., San Bernardino Co., California

947 Crotalus cerastes

25.5 mi (by rd.) NW Twentynine Palms on Amboy Rd., San Bernardino Co., California

948 Arizona elegans

15.1 mi (by rd) W Twentynine Palms on Amboy Rd., San Bernardino Co., California

949 Crotalus cerastes

9.0 mi (by rd.) W. Twentynine Palms on Amboy Rd., San Bernardino Co., California

950 Crotalus cerastes

Hoere, H.
1980

3 May (cont.) 8.4 mi (by rd.) W. Twentynine Palms on Amboy Rd., San Bernardino Co., California

950 Crotalus cerastes

1 May Corral Hollow Road,

952 Pituophis melanoleucus DOR Coll.
953 Pituophis melanoleucus DOR Coll.

3 May Corral Hollow Road at Patterson Pass,

954 Lampropeltis getulus DOR Coll.
955 Rhinocheilus lecontei DOR Coll.

5 May 5.4 mi W. Koch Rd., .25 mi. S. Oak Creek Rd., Kern Co., California

956 Sceloporus magister ad ♂ Coll. K. Tollestrup

6 May 1.7 mi NE California City Boulevard on Mojave - Randsburg Rd., Kern Co., California

957 Gambelia wislizeni ♀ Coll. K. Tollestrup

2.7 mi NE California City Blvdulevard on Mojave - Randsburg Rd., Kern Co., California

958 Gambelia wislizeni ♂

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1980

6 May (cont.) 5 mi. N. California City, Kern Co., California

959-960 Phrynosoma platyrhinos

16 May 3 mi W. Hwy 5 on Patterson Pass Rd., ~~San Joaquin Co.,~~ Alameda Co. California

961 Arizona elegans - DOR, coll. David Peterson

17 May 2.4 mi W. of Hwy 5 on Corral Hollow Rd., San Joaquin Co., California

962 Crotalus viridis - DOR, coll. David Peterson

1/4 mi W. of Site 300 on Corral Hollow Rd., San Joaquin Co., California

963 Masticophis flagellum - DOR coll. David Peterson

29 ~~30~~ May

964 Rhinocheilus lecontei AOR, killed 5 June 80

30 May 15.7 mi E. Newberry Springs (I 40) on National Trails Hwy, San Bernardino Co., California

965 Arizona elegans AOR, killed 5 June 80

Between Newberry Springs & Ludlow on National Trails Hwy, San Bernardino Co., California

966 Crotalus cerastes AOR, killed 5 June 80

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30 May (Cont.) Pisgah Crater, San Bernardino Co., California

967 Crotalus cerastes in burrow, killed 5 June 80
968 Chionactis occipitalis Coll. D. ~~A.~~ Peterson
31 May Pisgah Crater, San Bernardino Co., California
969 Crotaphytus bicinctores ♂ killed 5 June 80
970 " " ♀ " " " "
971 Chionactis occipitalis Coll. P. Licht
972 Crotalus cerastes coiled in sand, killed 5 June 80
1 June 7.6 mi S. Jct of Searles Station Rd. on Trona Rd.,
San Bernardino Co., California
973 Masticophis flagellum AOR, killed 5 June 80
3.9 mi. S. of Hwy 190 on Panamint Valley Rd., Inyo Co., California
974 Crotalus cerastes AOR, Coll. J. E. Cadle, killed 5 June 80
1.9 mi. W. of Panamint Valley Rd. on Hwy 190, Inyo Co., California
975 Crotalus cerastes AOR, killed 5 June 1980
4.6 mi E. of Panamint Valley Rd. on Hwy 190, Inyo Co.
976 Phyllorhynchus decurtatus AOR, ~~killed~~ 5 June 1980
3.8 mi E. of Panamint Valley Rd. on Hwy 190, Inyo Co.
977 Hypsiglena torquata AOR
2.9 mi S. of Hwy 190 on Panamint Valley Rd., Inyo Co.
978 Phyllorhynchus decurtatus AOR
30 May 5.1 mi E. Ludlow on National Trails Hwy, San Bernardino Co.
979 Arizona elegans AOR killed 5 June 80

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1980

31 May National Trails Hwy at Pisgah Crater, San Bernardino Co., California
980 *Phyllorhynchus decurtatus* AOR
6 June 1.5 mi E. of Castle Rock on Corral Hollow Rd., San Joaquin Co., California
981 *Hypsiglena torquata* AOR 2138 hr
20 June 8 mi. N. Zapata, Zapata Co. Texas
982 *Crotaphytus reticulatus* – coll. J. P. Karges, 18 May 1980, under rock in Tamaulipan scrub at dusk.
5 air mi S. Aledo, Parker Co. Texas
983 *Sistrurus catenatus* – coll. J. P. Karges, 27 May 1980, on dirt road by Bear Creek, flattened at edge of dirt road near woods that are adjacent to prairie.
25 June at entrance to Arches National Park on Hwy 163, Grand Co., Utah
984 *Pituophis melanoleucus* – AOR/DOR at 2150 hr, bright moon
26 June 8.8 rd miles E. Hwy 163 on rd to Mt. Waas, San Juan Co, Utah
985 *Crotaphytus collaris* juv ♂
9.7 rd miles E. Hwy 163 on rd to Mt Waas, San Juan Co., Utah
986 *Crotaphytus collaris* juv ♀
14.1 rd miles E. Hwy 163 on rd to Mt Waas, San Juan Co., Utah
987 *Crotaphytus collaris* ad ♂
≈15.5 rd mile E. Hwy 163 on Pack Creek Rd., San Juan Co., Utah
988 *Sceloporus graciosus* gravid ♀
5.3 rd miles E. Hwy 163 on rd. to Mt. Waas, San Juan Co., Utah
989 *Bufo woodhousei* AOR

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1980

26 June (cont.) 4.0 mi S. Moab (4th East Street) on Hwy 163, Grand Co., Utah
990 Pituophis melanoleucus AOR
27 June 3.5 mi S. Hwy 73, 0.4 mi W. Hwy 68 (≈15 mi WNW Provo), Utah Co., Utah
991 Pituophis melanoleucus juv
1 July 1.5 mi E Wasatch Blvd., Mill Creek Canyon, Salt Lake City Salt Lake Co., Utah
992 Coluber constrictor
993 Sceloporus graciosus
5 Aug AOR/DOR on Wildcat Canyon Rd near Mineral Springs, Tilden Regional Park, Contra Costa Co.
994 Lampropeltis getulus - died 5 Aug 1980, coll. D.B. Wake, 3 August 1980.
8 Aug Pisgah Crater, San Bernardino Co., California
995 Trimorphodon biscutatus coll. 8 June 80, J.H. Kaufmann
Berkeley Tuolumne Camp,
996 Lampropeltis zonata coll. 26 July 80, J.H. Kaufmann
23 Aug 19.1 rd. mi E. of Ellensburg on Hwy 10, Kittitas Co., Wash.
997 Coluber constrictor DOR
≈2 air mi NNE Vantage, Grant Co., Washington
998 Eumeces skiltonianus
3 Oct 5 mi N. California City, Kern Co., California
999 Gambelia wislizeni juv., coll. 0920, preserved 1330 hr.

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1980

3 October 0.7 mi N of Oak Creek Rd. on Tehachapi - Willow Springs Rd., Kern Co., California
1000 Pituophis melanoleucus AOR, 1930 hr.
0.3 mi N. of Oak Creek Rd. on Tehachapi - Willow Springs Rd., Kern Co., California
1001 Sceloporus occidentalis DOR
5.9 mi N. Mojave, ~~Kern Co~~ on Oak Creek Rd., Kern Co., California
1002 Arizona elegans AOR
4.4 mi N. Mojave on Oak Creek Rd., Kern Co., California
1003 Pituophis melanoleucus AOR
3.7 mi N. California City on Neuralia Rd., Kern Co., California
1004 Crotalus scutulatus DOR.
4 October Pisgah Crater, San Bernardino Co., California
1005 Crotalus mitchelli
15.5 rd. mi S. of Weldon, Kern Co., California
1006 Bufo boreas AOR
24.3 mi by rd. E. of Weldon on Hwy 178, Kern Co., California
1007 Pituophis melanoleucus DOR
25.4 mi by rd E. of Weldon on Hwy 178, Kern Co., California
1008 Pituophis melanoleucus DOR
≈2 rd mi N. California City on Neuralia Rd., Kern Co., California
1009 Crotalus cerastes AOR
≈2 rd mi N. California City on Neuralia Rd., Kern Co., California
1010 Pituophis melanoleucus AOR

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1980

4 October 5.2 mi S. Hwy 14 on Neuralia Rd., Kern Co., California
1011 Dipsosaurus dorsalis AOR, kept alive by Kurt Schwenk.
5 October 3.9 rd mi SE Walker Pass, Kern Co., California
1012 Masticophis flagellum
6 October Hornbrook, 2200 feet, Siskiyou Co., California
1013 Hypsiglena torquata, coll. D. H. Johnson, Spring, 1976
27 November 7 km S. Motupe, Cerro de la Vieja, Lambayeque, Peru
1014 Tropidurus occipitalis 63+38+26mm, 10.5g, ♂ (MHNJP)
1015 Tropidurus occipitalis 65+115mm, 11.0g, ♂
1016 Tropidurus koepckeorum 62+82mm, 7.5g, ♀
1017 Tropidurus koepckeorum 61+11+17mm, 7.5g, ♀ (MHNJP)
1018 Tropidurus koepckeorum 59+13+40mm, 5.5g, ♀
28 November 7 km S. Motupe, Cerro la Vieja, Lambayeque Prov., Peru
1019 Dicrodon guttulatum 121+70+149mm, 46.5g (MHNJP)
29 November 7 km S. Motupe, Cerro la Vieja, Lambayeque Prov., Peru
1020 Tropidurus koepckeorum, preserved 1 Dec 80, 57+28+5, 7g
30 November 75.1 km (rd) SE Piura, Piura Prov., Peru
1021 Phyllodactylus reissi preserved 1 Dec 80, 55+30+22, 5.5g (MHNJP)
1 December Quebrada between Talara & Lobitos, Piura Prov., Peru
1022 Tropidurus thoracicus 63+20+34 mm, 9g (MHNJP)
1023 Dicrodon guttulatum 57+136, 5.5g
2 December Quebrada ≈5 km (air) NE Negritos, Piura Prov., Peru
1024 Tropidurus SV 49 mm, 2.5g
1025 Dicrodon guttulatum 100+296, 25g
1026 Dicrodon guttulatum 131+352 mm, 53.5g
1027 Dicrodon guttulatum 132+358 mm, 62±g

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2 December (continued) Quebrada ≈ 5 Km (air) NE Negritos, Piura Prov., Peru
1028 Dicrodon guttulatum 131 + 328 mm, 64 g (MHNJP)
1029 Dicrodon guttulatum 118 + 295 mm, 40 g
1030 Dicrodon guttulatum 70+160, 10 g (released)
1031 Callopistes flavipunctatus 285 g (fresh wt.)
4 December 7 Km S. Motupe, Lambayeque Prov., Cerro La Vieja, Peru
1032 Phyllodactylus kofordi 46+12+6, ≈2 g (MHNJP)
1033 Tropidurus 77+138, 13.5 g
1034 Tropidurus 75+19+61, 11.5 g
1035 Tropidurus 69+130, 11.5 g
1036 Tropidurus 68+99+9+2, 10 g (MHNJP)
1037 Tropidurus 63+21+52, 6.5 g
NB: (MHNJP) = specimens left at the Museo ~~Na~~ de Historia Natural "Javier Prado", 6 December 1980, in accordance with permit requirements.
10 December Beach ≈ 3 Km WSW Lurin, Lima Prov., Peru
1038 Tropidurus peruvianus
1039 Tropidurus peruvianus
Fundo San Carlos de Apoquindo, Los Dominicos, 20 Km (air) E. Santiago, Santiago Prov., Chile
1040 Callopistes maculatus wt. (-tail) 13 Dec 80 = 122 g
16 December Vicinity of Lampa, 37 Km (rd.) NW Santiago, Chile
1041 Callopistes maculatus 85 g, SV 131, tail complete
17 December Vicinity of Lampa 37 Km (rd) NW Santiago, Chile
1042 Callopistes maculatus SV 143, perfect tail, 75 g
1043 Callopistes maculatus SV 145, " ", 87 g

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1980

17 December Vicinity of Tampa, 37 Km (rd) NW Santiago, Chile

1044 Callopistes maculatus SV 141, freshly broken tail, 58.5 g

1045 Callopistes maculatus SV 130, regenerated tail, 66

Fundo San Carlos de Apoquindo, Los Dominicos, 20 Km (air) E. Santiago, Santiago Prov., Chile

1046 Liolaemus monticola FC

1047 Liolaemus monticola FC

1048 Liolaemus monticola

1049 Liolaemus monticola

1050 Liolaemus monticola

16 December Ritoque, 7 km (rd.) S. Quintero, Chile

1051 Liolaemus lemniscatus FC

1052 Liolaemus nigromaculatus FC

1053 Liolaemus nigromaculatus FC

1054 Liolaemus nigromaculatus FC

1055 Liolaemus nigromaculatus FC

1056 Liolaemus nigromaculatus FC

1057 Liolaemus nigromaculatus FC

1058 [illegible]

9 [illegible]

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1

Greene, H.
1981

2 April SE side Phoenix Lake, W of Ross, Marin Co., California
1063 Batrachoseps attenuatus (regurgitated by Diadophis punctatus).
13 April UC Botanical Garden, Strawberry Canyon, Berkeley, Alameda Co. California
1064 Crotalus viridis (pres. 15 April 1981) 274.1g, 590+37mm
27 April No data, hatched by Louis Porras.
1065 cf. Amblyodipsas cephalus carinatus hatched ≈ March 1981
8 May ~~3.8~~ 13.7 mi E. Adobe Rd in Twenty-nine Palms on Amboy Rd., San Bernardino Co., California
1066 Crotalus cerastes DOR 48g, 425+?
16.9 mi E Adobe Rd, Twentynine Palms, on Amboy Rd., San Bernardino Co., California
1067 Crotalus cerastes DOR 12g, 233+13
21.2 mi E. Adobe Rd., Twentynine Palms, on Amboy Rd., San Bernardino Co., California
1068 Crotalus cerastes DOR 10g, 230+13mm
9 May 40.8 mi NW Yucca Valley on Hwy 264, San Bernardino Co., California
1069 Rhinocheilus lecontei DOR 15.5g 332+48mm
8.3 mi N. Lucerne Valley, San Bernardino Co. California
1070 Crotalus scutulatus AOR 2200hr, 40g, 401+29
Jct Hwy 111 & Snow Creek Canyon Rd., Riverside Co., California
1071 Arizona elegans DOR 125g, 690+97
10 May ~~4.8~~ 6.1 mi W. Panamint Valley Rd on Hwy 190, Inyo Co., California
1072 Crotalus cerastes AOR 2035 hr
10.1 mi W. Panamint Valley Rd on Hwy 190, Inyo Co., California
1073 Crotalus ~~cerastes~~ mitchelli AOR, 2102 hr

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10 May 6.3 mi W. Panamint Valley Rd on Hwy 190, Inyo Co., California
1074 Crotalus cerastes AOR 2152 hr, >3000' marker
8 mi W. Panamint Valley Rd. on Hwy 190, Inyo Co., California
1075 Crotalus cerastes AOR 2202 hr.
8.9 mi W. Panamint Valley Rd. on Hwy 190, Inyo Co., California
1076 Lichanura trivirgatta AOR 2205 hr, 144.9 g, 620+93 mm
4.1 mi W. Panamint Valley Rd on Hwy 190, Inyo Co., California
1077 Crotalus mitchelli AOR 2230 hr
6.5 mi W. Panamint Valley Rd on Hwy 190, Inyo Co., California
1078 Crotalus cerastes AOR 2300 hr
9 May Snow Creek Canyon, S. side of San Gorgonio Pass, Riverside Co, California
1079 Sauromalus obesus died 13 May 1981 Coll. J.H. Carothers
22 May 1 mi W. Neuralia Rd. on Phillips Rd, Kern Co., California
1080 Pituophis melanoleucus DOR 490+76
1.1 mi S. Phillips Rd, 0.7 mi E. Neuralia Rd., Kern Co., California
1081 Crotalus cerastes AOR 248 g, 555+42 mm, gravid? ♀
4.4 mi W. Neuralia Rd on Phillips Rd., Kern Co., California
1082 Rhinocheilus lecontei AOR 105 g 643+105
3.6 mi N. Cal City Blvd on Neuralia Rd., Kern Co, California
1083 Rhinocheilus lecontei AOR 125 g, 660+90 mm, MD 15 (post.)
23 May 3.7 mi NW Oak Creek Rd on Tehachapi - Willow Springs Rd.,
Kern Co., California
1084 Eumeces gilberti
1085 Scolopendra
1.1 mi W. Neuralia Rd on Phillips Rd., Kern Co., California
1086 Pituophis melanoleucus DOR 2025 hr

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1981

23 May 2.5 mi W. Neuralia Rd. on Phillips Rd., Kern Co., California
1087 Pituophis melanoleucus AOR 2031 hr, 540g, 1093 + 182
4.6 mi W. Neuralia Rd. on Phillips Rd., Kern Co., California
1088 Pituophis melanoleucus DOR 2039 hr, 420g, 1101 + 170 mm
4.5 mi N. Hwy 58 on Cal City Blvd., Kern Co., California
1089 Crotalus scutulatus AOR 2140 hr, 20g, 327 + 22 mm
0.5 mi N. Hwy 58 on Cal City Blvd., Kern Co., California
1090 Crotalus scutulatus DOR 2152 hr, 24g, 334 + 22 mm
4.6 mi N. Hwy 58 on Cal City Blvd., Kern Co., California
1091 Arizona elegans DOR 2205 hr
5.5 mi N. Hwy 58 on Cal City Blvd., Kern Co., California
1092 Chionactis occipitalis AOR 2207 hr
6.7 mi N Hwy 58 on Cal City Blvd., Kern Co., California
1093 Arizona elegans DOR 2212 hr
24 May Darwin Falls Canyon, Inyo Co., California
1094 Crotaphytus bicinctores killed 1 hr after capture (≈1600) 92+177, 248
7 mi S Hwy 190 on Darwin Rd., Inyo Co., California
1095 Crotalus mitchelli 170g, 663 + 75 mm
1096 Crotalus mitchelli 120g, 604 + 36
3.9 mi W. Darwin Rd on Hwy 190, Inyo Co., California
1097 Phyllorhynchus decurtatus AOR, 4g, 200 + 19 mm
2.6 mi W. Panamint Valley Rd on Hwy 190, Inyo Co. Cal.
1098 Phyllorhynchus decurtatus DOR, 13g, 319 + 39 mm
25 May 2.7 mi W. Hwy 395 on Walker Springs Rd. Olancha, Inyo Co., California
1099 Pituophis melanoleucus AOR 1445 hr

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29 May Comptche-Ukiah Rd 6.2 mi E. Jct with Flynn Creek Rd at Comptche, Mendocino Co., California
1100 Pituophis melanoleucus
1101 Pituophis melanoleucus } coll. J. Stewart, pres. ≈ 2 hr
1102 Pituophis melanoleucus after capture
30 May Hwy 20, 18 mi E. Jct. Hwy 1 (0.5 mi E. Jct. Chamberlain Creek), Mendocino Co., California
1103 Pituophis melanoleucus DOR, coll. J. Stewart
8 June 1.2 mi N. Alameda Co. line on Morgan Territory Rd., Contra Costa Co., California
1104 Masticophis lateralis DOR 1400 hr, 107.4 g, 700+290 mm
22-23 April Ordway Ranch, Vasco Rd., Contra Costa Co., California
1105 Masticophis lateralis (euryxanthus) coll. C. Mayer
1106 Masticophis lateralis ("intergrade") coll. C. Mayer
15 May University of Ghana campus, Legon, Eastern Region, Ghana
1107 Causus maculatus coll. J.E. Cadle
30 June 2 mi S. Tesla Rd on Mines Rd, Alameda Co., California
1108 Pituophis melanoleucus DOR 580+101 mm 73.0 g, 1855 hr
5 mi SE Mines Rd on Tesla Rd., Alameda Co., California
1109 Pituophis melanoleucus AOR 902.8 g, 1260+217 mm 1908 hr
1 mi W. San Joaquin Co. line on Corral Hollow Rd., Alameda Co. California
1110 Crotalus viridis AOR 360+28 mm 39.0 g + 8.5 g prey
Sunol Regional Wilderness, Alameda Co., California
1111 Lampropeltis getulus DOR (contains Coluber)

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16 June ≈1.5 mi S. Round Valley Rd. on Garland Rd., near Paskenta, Tehama Co., California

1112 Crotalus viridis - coll. C. Mayer, B. Parker
2330 hr, ≈80 F, full moon. head missing

10 July ≈1 mi N. Fort Rock, Lake Co., Oregon

1113 Sceloporus graciosus

11 July 5.0 mi NNW Fort Rock Post Office, Lake Co., Oregon

1114 Eumeces skiltonianus

1115 Sceloporus graciosus

17 July 20.1 mi E Newberry Springs (I 40) on National Trails Hwy, San Bernardino Co., California

1116 Crotalus cerastes AOR 2105 hr 37g 343+43 mm

11.8 mi E Newberry Springs (I 40) on National Trails Hwy, San Bernardino Co., California

1117 Crotalus cerastes AOR 2135 hr 41g 333+32

19 July ≈5 mi N California City, Kern Co., California

1118 Phrynosoma platyrhinos

4.3 mi W. Panamint Valley Rd on Hwy 190, Inyo Co., California

1119 Phyllorhynchus decurtatus AOR ≈2200 hr 7g 250+26 mm

21 July Robbins, Sutter Co., California

1120 Thamnophis couchi coll. Ward C. Russell found dead, 6' under water in a crayfish trap 644g, 955+255 mm

28 August 1 mi W. Valley Springs on Hwy 88, Calaveras Co., California

1121 Lampropeltis getulus AOR/DOR ≈2100 hr

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30 August	Liberty Vista Lookout on Hwy 4, Jct. Sections 31, 32, 6, 5, T7N, T6N, R17E, Calaveras Co., California ≈6500'
1122	Sceloporus occidentalis pres. 2 Sept.
1123	Sceloporus graciosus pres. 2 Sept.
12 August	Round Valley Road, ≈ 1/4 mi N. Salt Creek Saddle, Tehama Co., California
1124	Masticophis lateralis coll. M. Jennings

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Calif: San Bernadino, Riverside, Orange,
San Diego, Contra Costa, Tulare Cos.

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1979

28 Feb Left Oakland airport at 7AM w/ Dave Wake, Kay Yanev, John Cadle for Ontario - Riverside. arrived there ≈ 8, rented 4-wheel drive car at UC Riverside, ate breakfast & drove up to San Dimas Canyon.

San Dimas Canyon, 1.1 mi NNE Foothill Freeway, San Bernardino Co., California

Sunny, warm. Steep, chapparal-covered slopes; canyon bottoms sparsely to heavily wooded. Water in streams.
1 Aneides lugubris, 1 Batrachoseps nigriventris, 1 Gerrhonotus multicarinatus, 1 Thamnophis couchi.
D saw 1 large Gerrhonotus active in thick brush high on a hill, but it easily slipped away. Caught 1 w/ complete tail (tip later broken in sack) in lush grass in open, near trees at roadside. Heard it, then saw it moving towards a large sheet of cardboard. Seemed to fold legs and be moving largely by lateral undulation.

(see general notes on this trip at end of 4 March)

Greene, H.

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28 Feb. (cont.) San Gabriel River Canyon (between jct. of N&W forks w/E. fork), 10.7 mi above Sierra Madre Blvd., Los Angeles Co., California

Wooded, rocky hillside. 1 Ensatina, 4 B. nigriventris, 1 Gerrhonotus under a rock. Cold & cloudy, ≈5PM.

Base of Big Dalton Canyon at jct. Sierra Madre Blvd. & Valley Center, Los Angeles Co.

Urban. 1 B. nigriventris.

1 March Live Oak Canyon, 2.6 mi SSW Hwy 10 near Yucaipa, San Bernardino - Riverside Co. line, California

Pasture bordered by rocky slope, occasional oaks. Pouring rain, ≈ 8 AM.
3 Batrachoseps major, 1 Anniella pulchra
1 Gerrhonotus multicarinatus, Uta.
The Anniella was just beneath soil surface (as was a moderate size Scolopendra) under a thick downed stump (ca. 18" x 4' long). Writhed but didn't bite. Kay found the gator lizard.

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1 March (cont.)

East Portal Adit, 1 1/4 air mi SE Cabazon, 1600 ft, Riverside Co., California

Very open, boulder covered hills, few trees & logs, much trash. JC & I trespass & are immediately caught by two ranchers - we are "hiding" while Dave and Kay are to act like the car is broken down. Instead Dave tells the truth and they are very cooperative. The elder even sends his "boy" (≈ mid 40's) along to help us at this and the next locality. Calls Dave "young fellow" (appreciated) and Kay "young lady" (not appreciated). Pouring rain and cold. We get thoroughly soaked.

1 Batrachoseps major, 1 small Coleonyx, 1 Xantusia vigilis, 1 G. multicarinatus, ≥1 Eumeces. These were under surface cover.

Cabazon Shaft, 1 1/2 mi SSW Cabazon, 1600 ft, Riverside Co., California

Same habitat as above, but steeper. Miserable weather - rain & cold. 1 Batrachoseps major 1 Coleonyx, ≥1 Eumeces.

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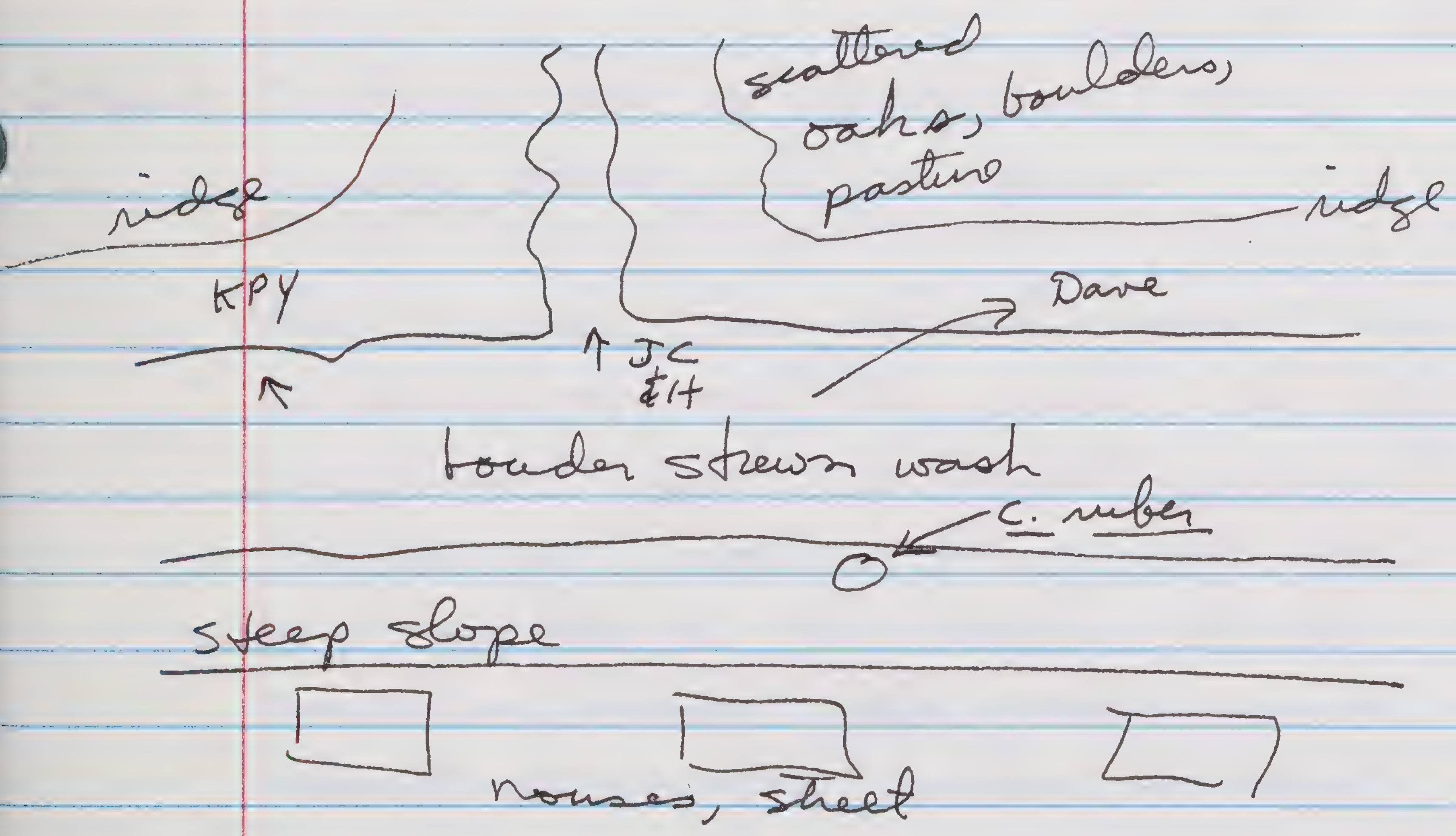
1 March (cont.) Mouth of Wardlow Canyon, Santa Anna Mtns., Corona, Riverside Co., California

Rain has more or less stopped and we worked here ≈ hour, 'till sundown. Nice canyon, oaks, stream, pasture (lots of BS & some cows see), boulders — all this right against a subdivision of very, new, as yet unoccupied houses.



Everyone else got B. major here (total 11). I found an adult Crotalus ruber under a large, upright, yellow cracked garbage can. This was amidst dense brush on rocky rubble at bottom of steep slope below the houses. Snake was in a

1 March (cont.) Mouth of Wardlow Canyon, Riverside Co. (cont.)

tight coil and only response was to slowly hide head into coils. I gently pinned & caught it - never rattled or opened mouth. Total length about 1 m or more (DBW later guessed 5' - too long for sure). Released it, and later as we left it was still there.

2 March Santiago Creek at Chapman Avenue, Orange, Orange Co., California

Near houses, large trashy vacant area bordering almost dry wash. In 15 min we find 1 juv & 2 adult Gerrhonotus - I found 1 ad under small log in middle of the wash. I also found a small Bufo boreas under trash above the wash (not kept).

Crest of Orange Hill at Chapman Avenue, Orange, Orange Co., California

Chaparral. 1 B. major

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2 March (cont.)

Firestone Canyon, 6.7 mi SE intersection of S-25 and Santiago Canyon Rd. where it crosses the main stream, Orange Co., California

Oaks along hill & stream. We are trespassing on the Irvine Ranch, and repeatedly buzzed by helicopters. 42 Batrachoseps nigriventris, 1 B. major.

Silverado Canyon, near end of Public road on Natl. Forest land, Orange Co., California

Very nice wooded canyon w/ nice running stream. In ca. 1 hr we got only 5 B. nigriventris.
We had trouble getting access in this canyon. Dave talked to one rancher who refused - big wiry guy, late 40's. Gaudy cowboy shirt, big buckle, huge cowboy hat w/ large feather in it. sort of rough & stupid but cagey looking. Forest service fellow later said this guy probably would shoot at trespassers.
Kay, DBW, JC eat good chili, I mistakenly get HB.

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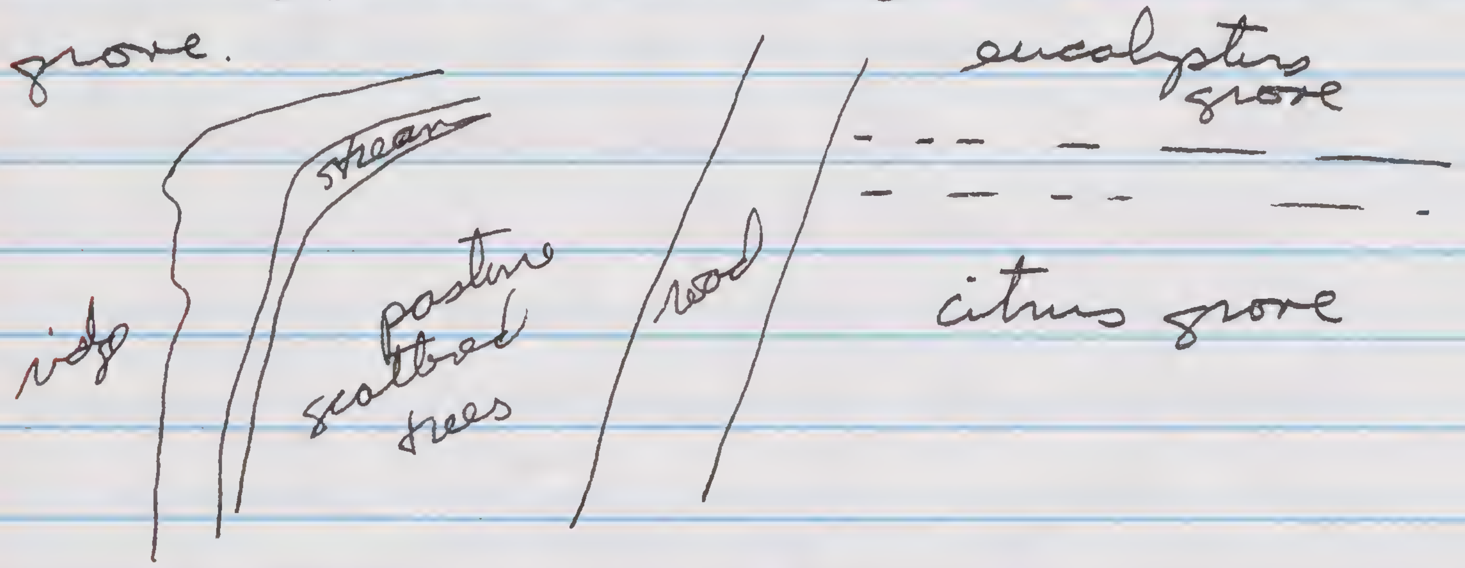
2 March (cont.) Aliso Canyon, 4.3 mi NE Hwy 5 at El Toro on El Toro Rd., Orange Co., California

Stream, pasture, citrus, and a eucalyptus grove.



6 B. major; 1 juv & 2 adult Ensatina under trash in the citrus & eucalyptus groves.

Laguna Canyon, 2.6 mi by rd. NE Hwy 1 at Laguna Beach, Orange Co.

This is an isolated oak grove w/ a tiny stream through it, on a rolling grass covered hillside. 7 B. nigriventris under logs & boards on thick leaf litter. I took photos here.

Woods along San Juan Creek, 4.6 mi by Ortega Hwy (Rt 74) NE Hwy 5 at San Juan Capistrano, Orange Co.

5 B. major.

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2 March (cont.) Lower slopes (~~W.~~ E.) of Santa Anna Mtns., above Lake Elsinore, on Rt 74 0.7 mi W jct. w/ Rt. 71, Riverside Co., California.

Right at dusk we ~~stopp~~ stop - brush, boulders, some oaks etc. I work on open area (flat, base of hill) w/ much trash - planks, tin, etc. some of it obviously turned before
1 juvenile Crotalus ruber under large sheet of tin. Tight coil, no response - gently lifted into sack on end of pick ax w/out even disturbing its coil.

3 March Rt 5-6, 5.4 mi S Valley Center P.O., San Diego Co., California

5 B. major

Rt 76, 2.9 mi E. jct w/ 5-6, 2090 ft., San Diego Co., California

Beautiful wood canyon, steep slopes. Dave especially like this stop. Others get 6 B. major, I find small adult G. anhonotis in dry duff

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3 March (cont.)

Rt 76, San Diego Co. (cont.)

under fallen stump. It seems quite surprised – inflated as it is uncovered & bites & shits when picked up.
Driving above this site, we overheated & stopped at a roadside stream to cool engine. When we reached Palomar P.O. repaired a hose. Here we met Ted Papenfuss' friend from San Diego, Scott Haskins.

Will Valley, 6.3 mi SE Palomar P.O., San Diego Co., California

We stopped here after getting nothing in the deep snow higher up. Split up here & worked 1½ hours – I got 1 skink under log on an open hillside, the only herp. Tough. Nice place though, w/ H. regilla calling. Ridges bordering a nice green valley w/ groundsquirrels in it. Watched a golden eagle make two roundtrips of the entire valley, flying very low over ground.

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3 March (cont.) Camp Winacka (GSA), 3.7 mi SW Hwy 78/79 on Boulder Cr. Rd., 4000 ft., San Diego Co., California

Open forest, thick litter, rocks, some slope. Dave & I each get 1 *E. e. klauberi* and 1 skink before GSA ranger accosts me & diplomatically asks us to leave. We do. Herps were under logs. My *klauberi* a subadult, DBW's an adult.

Wm. Heise Co. Park, 4.6 mi SW Hwy 78/79 W. of Julian, 4400 ft, San Diego Co.

This is beautiful thick but open forest, w/ many logs and planks on ground. Several tourists around so we leave tools behind. Kay and I get 5 *klauberi*, JC 6, & DBW + SH 9. They are truly strikingly colored (rich orange blotches here), especially subadults. Usually immobile when exposed, but one took off. There are many yellow/orange blotches on the

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3 March (cont.) Wm Heise Co. Park, San Diego Co. (cont.)

ground here, and it's easy to see how the coloration could be both aposematic & cryptic. We spent ≈1 hr. here. Sunny but cold, fair amount of snow it places.

El Lozzo Ranch, 5.2 mi SE Ramona, (jct. 78 & 67) on Hwy 78, 2200 ft., San Diego Co, California

30 min night at dark — 5 *B. major*.

4 March Pamo Valley Rd., 3 mi N. Haverford Rd, N of Ramona, 1600 ft, San Diego Co.

9 *B. major*, 1 *Eumeces*

Jct. Bear Valley Parkway & Royal Crest Drive, SE side of Escondido, San Diego Co., 500 ft

1 *B. major*

Next stopped at park in Fallbrook – saw ~~only~~ many *Sceloporus* & *Uta* – even on same logs.

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4 March (cont.)

Jct. ~~B~~ De Luz & Sandia Canyon Rds., 1.2 mi N Fallbrook, 440 ft, San Diego Co.,

We stop here for lunch, then Dave, KPY & JC work low in the oaks. I go up the slope (trail through chaparral); find much tin & trash, see Sceloporus, but catch only a Bufo boreas under rock in sun. Dave got copulating pair of Gerrhonotus under cardboard at edge of intersection! They also got 3 B. major.

Jct. E. Vista Rd. & Rt 76, 4 mi N. Vista, San Diego Co., California

I find 1 Eumeces under cardboard on bare road shoulder, next to pasture.

Agua Hedionda at NE jct. S-11 & S-12, E of Carlsbad, San Diego Co.

Canyon surround by chaparral & some prickly pear. Trash. I get juv Gerrhonotus, Dave gets adult (tail broken when caught) & misses a big one. also 2 B. major (1 I found under discarded appliance).

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4 March (cont.) Solana Hills, S. of San Elijas Lagoon & E. of Solana Beach, San Diego Co.

3 B. major.

From here rush to San Diego Airport & uneventful trip home (JC returned later).

Miscellaneous notes:

Supported by MVZ & Dave's grant.

I got poison oak.

Found 1 Gerrhonotus shed & all I brought back shed w/in 10 days.

See DBW & JC for other field notes.

All skinks from trip were tissued & put in MVZ by S. D. Busack.

Sceloporus & Uta were encountered often but not recorded by locality — common sack for snake food.

Saw many centipedes, most small.

Good trip!

Greene, H.

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10 March Point Pinole Regional Park, Contra Costa Co., California

0800 - 11:30 AM

Zool 107 field trips to here yesterday & today. Reports on each day of Batrachoseps, Bufo, Hyla, Sceloporus, Gerrhonotus multicarinatus, Diadophis, and Pituophis. 1 Taricha found under litter in the biggest Eucalyptus grove.

My group found 2 Gerrhonotus and a Diadophis (all released). 1 lizard & the snake were under a log & board, respect., along the road by the shore, walking N. The other lizard under a very large log at the edge of the big Eucalyptus grove. Both Gerrhonotus were males, w/ semen in their penes. The Diadophis had a nice tail display, & was on a thick grass mat under a plank. We saw 3 active Microtus nests.

~~0~~1600 PM

I returned to turn trash across from the Park entrance - found 2 Batrachoseps and 1 Diadophis. The snake was a very dark one w/ orange belly, under a small piece of plywood on the edge of the railroad ravine.

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23 March Pt Pinole Regional Park, Contra Costa Co., California
1330 – 1530 hr, w/ Dona & the dog, we walked to the point pier & back. Saw kites, kestrels, red tails etc. 1 adult G. multicarinatus under a half-buried 2x4 in grass on the ridge (E side of crest) leading to the big Eucalyptus grove, at least 50' from nearest trees. The lizard was under the buried end. Also saw 2 ad ♂ S. occidentalis on cut stumps & 1 subadult on a snag

24 March 1330 – 1420, in trash across from park entrance w/ dog. Found 1 Batrachoseps, 3 Coluber, & 8 Pituophis. It was warm & sunny (more so yesterday). Found them as follows:

1 Batrachoseps under a board
2 juv. Bufo boreas under trash
3 ad Pituophis & 1 Bufo under a piece of corrugated roofing (?)
2 ad Coluber & 1 ad Pituophis under a piece of corrugated roofing
1 ad Coluber & 1 ad Pituophis under a piece of wood
1 ad Pituophis under each of 2 pieces of wood

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24 March (cont.) 1 juv *Pituophis* under a large piece of carpet.
The *Coluber* were quick to move off, more so than the *Pituophis*. The *Coluber* squirmed a bit. The two *Pituophis* I picked up (adults) both thrashed then hissed & struck when restrained. The 3 *Pituophis* together were facing N, in loose coils w/ heads & necks extended. The adult *Pituophis* were ≤1 m total length, the *Coluber* shorter — ≈ .5 - .75 m.

8 April 3 *Coluber* under the corrugated sheets at Pinole — collected them to weigh & later release. Found 1 *Diadophis* under a corrugated sheet (flat land) and one under a small piece of plywood near the top of a slope.

10 April Returned to release the 3 *Coluber* and found 3 more under the same corrugated sheets. All are adults, about the same size.

22 April 1 *Diadophis* (opaque, collected) and 1 *Pituophis* under a single corrugated sheet at Pt Pinole,

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24 April 100 m E of Pt Pinole Regional Park, Richmond, Contra Costa Co., California

6:30 PM. Found juvenile (<.5 m) Pituophis under piece of folded carpet at edge of road paralleling the tracks – same place I found (this?) juvenile 24 March. It was calm when placed in the road, but became aggressive when approached by Jayla (Malamute). S-coil, hissing, striking, and tail vibrating. She approached closely barking, it struck, she jumped back. This was repeated several times but she never seized it and I returned it to the carpet. Also 2 ad Pituophis under one of the corrugated sheets, partly overlapping each other at one corner. The lower a dark one with bobbed tail just past the vent (♀?); the upper a very red ♂ w/ some irregular, large ~~scars~~ scars (?) dorsolaterally. They were very quiet and barely moved when touched. 2 Bufo boreas under another sheet. Many redwinged blackbirds singing.

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25 April Cool and rainy — no snakes under the corrugated sheets at Pt. Pinole.

27 April Left MVZ at noon w/ herpetology class, drove straight to Skaggs Springs.

<u>Hyla</u> <u>regilla</u> - scattered calling & several seen active in grass & nettles

<u>Bufo</u> <u>boreas</u> - several under stumps

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1 May Left Berkeley at 12:30 w/ Ben Dial for 5 days in S. California.

1.0 mi W of Jct w/ Hwy 14 on road from Hwy 58 to California City, Kern Co., Calif.

Stopped for 10-15 minutes in creosote bush desert w/ scattered Joshua trees. Got 4 *Xantusia vigilis* under dry fallen J. tree logs.
Arrived Cal City ca. 8PM & supper w/ Kristine Tollestrup, Jeff Kauffman, Lisa Palermo, Kim Hirna (?).

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12 May Pt Pinole Regional Park, Richmond, California

Walking the dog w/ Dona shortly before sunset — still visible above Mt. Tam but road is in shade. At ≈ 1900 hr we encounter an adult <u>Gerrhonotus multicarinatus</u> basking on the asphalt road shoulder. The site is less than 100 m W of the RR bridge and in the public picnic area. The lizard is flat against the pavement, w/ limbs extended alternately ~~left as~~ forward and backward. Thus, I can't be sure if it was really basking or just "froze" in mid-stride before I saw it. We approached to w/in .5 m w/out it moving, but when the dog touched it w/ her snout it moved across the entire width of the road. She cornered it just before it reached grass on the opposite side, and it turned and traveled back to the original site where she cornered it again. This time the lizard turned its body in a tight coiled, pointed its head upward w/ mouth agape, and circled to follow the dog's movements. She finally came very close (≈ 4-5 cm) and it jumped (?)

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12 May (cont.) at her. She jerked back quickly, and the lizard escaped into the grass. (When the lizard moved across the road and back I watched it carefully. The limbs were folded against the body and progression was entirely by lateral undulation of the body and tail. It moved very fast, faster I think than Gerrhonotus can move w/ its legs.) We were, surprisingly it seemed, unable to locate the lizard in the roadside grass.

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22 June arrived at Pixley Wildlife Refuge, Tulare Co., at ≈ noon, to see Kristine Tollestrup and her assistant Kim Vieira. Walked around ≈ 2 hr, watching & photographing Gambelia silus & Phrynosoma coronatum. Saw both sp. basking in bushes off ground - it was hot!

3 Nov 79 w/ JEC

(1) 331.5 A. [illegible]
(2) 365.7 Aneida
366.4 Douglas Flatern
368.1 Murphys
384.2 Murphys

368.1	368.1
331.5	365.7
36.6	2.4

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Calif: Mendocino, Sonoma Cos.
Peru
Chile

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18 April Herpetology class field trip to Mendocino Co., w/ John Cadle (teaching assistant) and 10 students. Left Berkeley ≈1:30 PM in 3 cars, arrived at 1st site ≈3:40. Beautiful day - warm, sunny, few clouds.

Skaggs Springs, Sonoma Co., California

This is the same site we searched last year - worked (10 people) 'til ≈ 6 PM, with much success. (see addendum)

Batrachoseps attenuatus - 1

Aneides flavipunctatus - 2 in talus on sunny slope (same as last year)

Bufo boreas - 1 adult in open beside old board in clearing

Rana boylei - several seen along creek, 1 juvenile collected.

Sceloporus occidentalis - dozens (hundreds?) seen. Males w/ enlarged femoral pores and readily eversible hemipenes. Mainly on logs, some on rocks.

Eumeces skiltonianus - several seen, including males w/ red heads.

Gerrhonotus multicarinatus - 2 small adults, one active in grass and one under board at stream side.

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18 April (cont.)

Lampropeltis getulus – one under small rock on the talus slope where we found *Anniella*.

Crotalus viridis – 4 on NE facing slope. One juvenile I found under a 4X12" piece of wood had obviously recently eaten. Our attempt to get it to regurgitate resulted in rupture of the venter, exposing a *Sceloporus* in the gut. The second was a large adult under a piece of bark that rested over the end of a large log. Snake was tightly coiled, facing sun; bark not touching it. A perfect situation for snake bite, and the students were impressed. Later a girl found another large adult under a board and while she went for help a second smaller snake crawled next to the first.

arrived Hendy Woods State Park, Mendocino Co., California at dark

Two students arrived before us

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18 April (cont.) and had found 1 Ensatina and 1 Lampropeltis getulus.

Addendum to Skaggs Springs list:

Hyla regilla – calling, 1 found.

Diadophis punctatus – 1, very bright green and orange, tail display. Under piece of log

19 April Hendy Woods State Park, Mendocino Co., California

Several students searched under logs in vicinity of the campsite. They found several small Ensatina, 1 Taricha (cf. granulosa), and 1 each of Aneides flavipunctatus, A. ferreus, and A. lugubris. (Note: the supposed lugubris is a ferreus)

1.7 mi N. Hwy 128 on Flynn Creek Rd., Mendocino Co., California

Woods w/ abandoned railroad cut. Many RR ties in open areas. Running water in creek.

Taricha granulosa – adults and 1 juvenile in streams

Aneides flavipunctatus – 1 juv and several adults under ties and logs.

Aneides ferreus – 1 ? juvenile

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19 April (cont.)

Dicamptodon ensatus - 1 small adult under a railroad tie. Several larvae in stream.

Hyla regilla - 1 large bright green adult beside stream.

Sceloporus occidentalis - several on ties in sunny areas.

Eumeces skiltonianus - 2 under cover (1 was under a small piece of thin, rusty tin in sun).

Diadophis punctatus - 1 dead, rotten adult partly exposed and partly under a tie. 1 live adult, (greenish & light orange) under a small board.

Batrachoseps attenuatus - several under cover.

Rana boylei - 1 juvenile beside stream.

Gerrhonotus coeruleus - 1 seen by John Cadle escaped.

6.1 mi E. of Flynn Creek Rd. on Orr Springs Rd., Mendocino Co., California

Dirt road along steep, heavily forested ridge. We stopped at a construction area w/ many boards, logs, etc. Worked for about 1½ hours, with good luck from the start. Cool and sunny.

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19 April (cont.)

Hyla regilla - tadpoles and recently metamorphosed frogs, at very small shallow temporary pools.

Batrachoseps attenuatus - several.

Aneides flavipunctatus - several large adults and green juveniles under cover.

Eumeces skiltonianus - several.

Sceloporus occidentalis - many.

Charina bottae - 1 large ♂ w/ stubby tail and something in stomach, under board on edge of clearing. (photographed site and general area). John Cadle found another adult under a piece of bark on the ground in sun.

Coluber constrictor - 1 juvenile active.

Thamnophis elegans - 1 juvenile under log and 1 adult active.

Contia tenuis - ~~4~~ 3 under or in logs.

Ensatina - 2 seen.

Aneides ~~ferreus~~ flavipunctatus - many.
OK ^

Barton Gulch, 4.3 mi E. Hwy 1 on Hwy 128, Mendocino Co. California

1500-1630 hr.

Ambystoma gracile - several egg masses and larvae

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19 April (cont.)

Dicamptodon ensatus - 1 larva.
Batrachoseps attenuatus - several.
Ensatina - 4.
Aneides flavipunctatus - several juveniles.
Rana catesbeiana - 1 juvenile. Other ranids seen.
Saw 2 ospreys overhead
Taricha granulosa

Dark Gulch, 1 mi N. Albion, Mendocino Co., California
1645-1800. Dark, cool, thorny, awful place!
1 Thamnophis elegans - in talus, grass open slope at road side
1 Gerrhonotus sp. - one escaped in rubble at road side
Dicamptodon - several larvae in rivulets on steep slope S. above stream.
Rhyacotriton - 6 adults & several larvae in rivulets on the slope
Rana aurora - along main stream.
Ensatina - 1 under rock near stream
Batrachoseps - a few.

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20 April — Spent last night at Hendy Woods St. Park. Slow drizzle from 2400 until we left, ≃0900. As we left for Orr Springs Rd. it started really pouring.

9.1 mi E. Flynn Creek Rd on Orr Springs Rd., Mendocino Co., California

In pouring rain, we worked up a narrow gorge to the right of the point of a sharp hairpin turn. Heavily forested, lots of fallen logs and a(?) 4 wheel drive road cut off to the right a little ways up.

Ensatina – 2 or more
Aneides flavipunctatus – several
Eumeces skiltonianus – 1
Thamnophis couchi – 1
Batrachoseps attenuatus – several
Diadophis punctatus – disgorged Contia
Sceloporus occidentalis – seen
Contia tenuis – disgorged by Diadophis

12.8 mi W. Flynn Creek Rd. on Orr Springs Rd., Mendocino Co., California

Pouring rain, quick stop, found nothing.

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20 April (cont.) 13.1 mi E. Flynn Creek Rd on Orr Springs Rd., Mendocino Co., California

Light rain. at one place found very DOR adult *Diadophis* and adult AOR *Taricha* ~~ ~~ *rivularis*.

14.1 mi E. Flynn Creek Rd. on Orr Springs Rd., Mendocino Co., California (≈ 1130 hr)

Still raining. Steep slopes, open forest, many logs.

2 *Taricha rivularis*
1 *Gerrhonotus coeruleus*

7154.1 — jct Hwy 101 & Hwy 253 (1307 hr)
partly cloudy, sunny. just had lunch in Ukiah.

10.9 mi. WSW Hwy 101 on Hwy 253, Mendocino Co., California

Open slopes w/ trees and rocks above small stream, on left going WSW.

Ensatina — several.
Batrachoseps — several.
Eumeces — several.
Sceloporus — several
Diadophis — under log, disgorged *Batrachoseps*
Lampropeltis zonata — under log (juv.)

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20 April (cont.)

Cold, windy, overcast.

7170.9 – Jct Hwy 253 & Hwy 128.

4.5 mi S. of Hwy 253 on Hwy 128, Mendocino Co.

large grassy field, several hundred yards long and ≈100 yds wide, separated from E facing slope by a fast, full stream. Searching under boards, sheets of tin, etc.

Bufo boreas – 2 adults + 1 regurgitated by Thamnoph.

Sceloporus – several.

Eumeces – several.

Thamnophis sirtalis – large, red adult, regurgitated freshly eaten adult Bufo boreas that was swallowed head first.

Contia tenuis – 1 under a board.

1500, cold, cloudy, occasional sun, as we left.

1528, bank sign in Cloverdale says 12°C.

Some wts. and lengths for snakes from the trip.

Bufo boreas (regurgitated) ~~...~~ 76.2 g

Thamnophis sirtalis – 310.9 – 5.4 = 305.5 g., 830+265 mm

Sceloporus (~~...~~ removed from C. viridis) 11.2 g, ♂, 73+13+31

Crotalus viridis (ate above) 10.5 g, 250+18 mm

Diadophis (Hwy 253) (disgorged Batrachoseps) 3.5 g

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20 April (cont.)

Batrachoseps (disgorged by HWG 253 Diadophis) 1.0g (head slightly digested) 46+24+5 mm
Charina bottae - 43.4g, 410+63 (contains 9.1g Sceloporus remains)
Lampropeltis getulus (Skaggs Springs) - 15.2g, 316+45g
Diadophis (disgorged ② Contia) - 11.0g, 360+79
Contia (larger of 2 disgorged by Diadophis, ant. is digested) - 4.7g

Addendum: opened two of the adult C. viridis
HWG 886 wt. 393.5g before opening. Anterior in the gut was a rodent remains, head first, that weighs (wet) 41.6 g. Second rodent remains (hair, skull) is posterior and weighs 24.5g. So, Crotalus = 327.4g
HWG 885 wt 612.0g after removal of rodent remains that were swallowed head-first. ♂ 900+65
NB: Lizards and rodents were very abundant at Skaggs Springs - we saw many Microtus californicus
HWG 884 - killed 1830 hr 21 April 1980, kept cold & not fed since capture. 893+76
542.5g - 19.1g of head-first rodent remains = 523.4g for snake.
NB: Both of the large male C. viridis had a cheesy substance in the sulci of their hemipenes.

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27 April Left Berkeley ≈1930 for Riverside, pooped out in Los Banos ≈2330.

28 April Up at 0530, drove till 0830 for breakfast

15.7 mi N Hwy 33 on I5, Fresno Co., California

Kristine Tollestrup saw a DOR *Masticophis flagellum*.

Tule Elk State Reserve, Morris Rd., Kern Co, California

Saw 4 elk, including bulls w/ huge racks, lying down in distance. Photographed burrowing owls and saw shrikes.

1.1 mi N. Desert Shores on Hwy 86, Imperial-Riverside Cos, California

≈1630 found huge DOR reddish *Arizona elegans*. Total length 122 cm, tail 15.5 cm - perhaps a ♀.

We arrived in El Centro ≈1800, found motel & did laundry. Air temp. (bank sign) 75°F. Moon almost full. On the way here it rained throughout the Coachella Valley and sporadically in the Imperial Valley. We stopped at one trash pile (boards, cars, tin) between Indio & Valerie Jean's date store but saw only 3 *Uta*. Stopped at Valerie Jean's for delicious date sundaes and for me to photograph a sign about "King Solomon" the palm tree.

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28 April (cont.) Left to road hunt at 2010 – clear, warm.

811.9 – Jct S80 & ~~86~~ Imperial Ave in El Centro

824.9 – AOR/DOR C. cerastes adult.

831.1 – AOR Coleonyx

831.8 – AOR Coleonyx ③

833.0 – AOR Coleonyx ④

833.3 – DOR Callisaurus

833.9 – AOR Coleonyx ⑤

834.4 – AOR Coleonyx

835.8 – AOR Coleonyx

836.2 – AOR C. cerastes – very small

838.8 – Ocotillo, Jct. S80 & S2, starting to drizzle

839.5 – turn E. on Hwy 98, light rain

849.5 – DOR Coleonyx, no rain, windy, getting cold

857.7 – DOR C. cerastes (from last night?)

860.8 – turn N. on S29

869.0 – Jct w/ S80 – back to El Centro for supper – 2230.

29 April Get food, air for left rear tire, head for dunes.

880.8 – Jct S80 & Imperial ave, El Centro, going W.

890.2 – turn N. on Huff Rd.

896.9 – Crest of dune meets road here. Photo of roadrunner last on roll.

897.7 – Main dune crosses road here. We stop to look for lizards.

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29 April (cont.) 7.5 mi N Hwy 80 on Huff Rd (NW of El Centro), Imperial Co., Cal.
Crest of large dune in the bombing range to the W crosses the road here. Walk around for 30 min. Kristine caught a Uta, saw a Callisaurus, and saw ♂ Dipsosaurus scat. Creosote bushes very widely spaced, not much other vegetation. No tracks of lizards or cerastes. Some evidence of rodents (burrows, husks) but lizards seem very scarce. We turn around.

899.9 - photo ♀ groundsquirrel eating
900.6 - very DOR large Pituophis.
905.1 - turn W. on Hwy 80.
909.7 - photo of juvenile Dipsosaurus in burrow entrance.
920.0 - nice white dune crosses road here. Very windy and overcast, and we saw nothing.
922.9 - Jct Hwy 2
923.2 - turn N. on Shell Canyon Rd. (N. of Ocotillo).
924.0 - Stop for photo of ocotillo in bloom.
Saw ♂ Callisaurus. Quite a lot of sand here.
928.9 - Went to end of pavement on Shell Canyon Rd., now back at Hwy 2 & turning W.
931.4 - turn N. on un-named paved road.

Boulder piles on Hwy 8, facing E, ≈ Imperial Co. line, California
Very windy, chilly, saw one ? Sceloporus orcutti flat on a boulder in sun. 1640.

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29 April
(cont.)

9043.9 - going W. on Gonder Rd. 8.1 mi W. of Hwy 33
Imperial Co.

live Mephitis crossed road & went down into burrow in canal embankment. Farmland

9061.2 - turn around and head west at the RR in Glamis. Bank sign in El Centro said 18°C at 1850 (now 1950).

9074.1 - DOR small adult C. cerastes, not saved.

9087.6 - Bufo sp. on Hwy 78

9088.0 jct 111

9091.7 turn W. on Cady Rd.

9094.4 turn S. on S-30

9098.5 turn W. on Imler Rd. (turns S.)

9112.9 turn W. on S-80

9117.3 Coleonyx

9129.7 Ocotillo Jct., turn around, going E on S-80

Note: On one trip to Ocotillo last night got 6 Coleonyx and 2 C. cerastes. Tonight got 1 Coleonyx only on one round trip. Tonight it was colder, windier, and brighter (big moon, no clouds tonight). Also, note that all 7 Coleonyx were between El Centro and Plaster City. The area between Plaster City and Coyote Wells is posted as open to O.R.V.'s and we got no geckos there.

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30 April 9156.4 – Imperial Ave & Hwy 80 – leave El Centro going W on Hwy 80.
9171.1 – photo hawk on telephone pole.
9180.6 – Made one more stop at the dunes E. of Ocotillo. Cool, windy, overcast – not as bad as yesterday but not right for lizards. We saw only Dipsosaurus turds and a roadrunner. Looks like a good place for Uma and Crotalus cerastes.
9182.5 – turn R. on Hwy 2. 1145 hr.
9201.1 – DOR Masticophis flagellum, ≤1m. Creosote, cholla, ocotillo. Red w/ black neck.
9201.8 – DOR groundsquirrel, lactating ♀.
Both of above w/in Anza Borrego Desert State Park.
9230.5 – turn E. on 78. Still cool, cloudy, windy. 1315 hr.
9233.8 – large DOR Lichanura in Sentenac Canyon. 2 photos, pickled snake.
9256.6 – Split Mountain Rd, ≈2.2 mi SSE Ocotillo Wells
Dipsosaurus – 2 juveniles noosed off roadbank. One enormous adult missed. Hot & sunny.
Corner of Split Mtn Rd & Old Kane Springs Rd, San Diego Co.
DOR C. cerastes just at JCT.
9259.1 – We go down Old Kane Spring Rd.
9259.9 – turnout – we stop to look. Saw several Callisaurus while driving to here. Missed 1 large Cnemidophorus & 1 Callisaurus here.
(see page after next for map).

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30 April (cont.) Dunes E of Jct of Palm Canyon Drive and Pegleg Rd., ~~3.7~~ 4.3 mi E. of Christmas Circle, Borrego Springs, San Diego Co., California

Found adult C. cerastes at ≈18:30. Sunny, partly cloudy, windy. Snake was cold and didn't rattle or struggle. It was under a piece of thin plywood ≈ 2 × 3'. The snake was coiled and partially buried. It was at the west edge of the board, facing the sun. The board was flush so snake wasn't directly exposed to the sun. The board was a few meters off the raised dune, on fine sand among creosote bushes.

9304.3 – Turn N. on Pegleg Rd.
9306.8 – Turn left on Henderson Canyon Rd.
9316.0 Start night-driving at Christmas Circle, going
~~9319.3~~ N on Borrego Springs Rd 1940
9319.3 E. on Henderson Canyon Rd.
9324.8 NE Salton Seaway
9328.4 turn around
9334.5 turn E to dump, Moon just came out.
9336.2 Pegleg and Palm Cyn Dr., going W.
Cold & bright – full moon tonight.
Nothing on the road.

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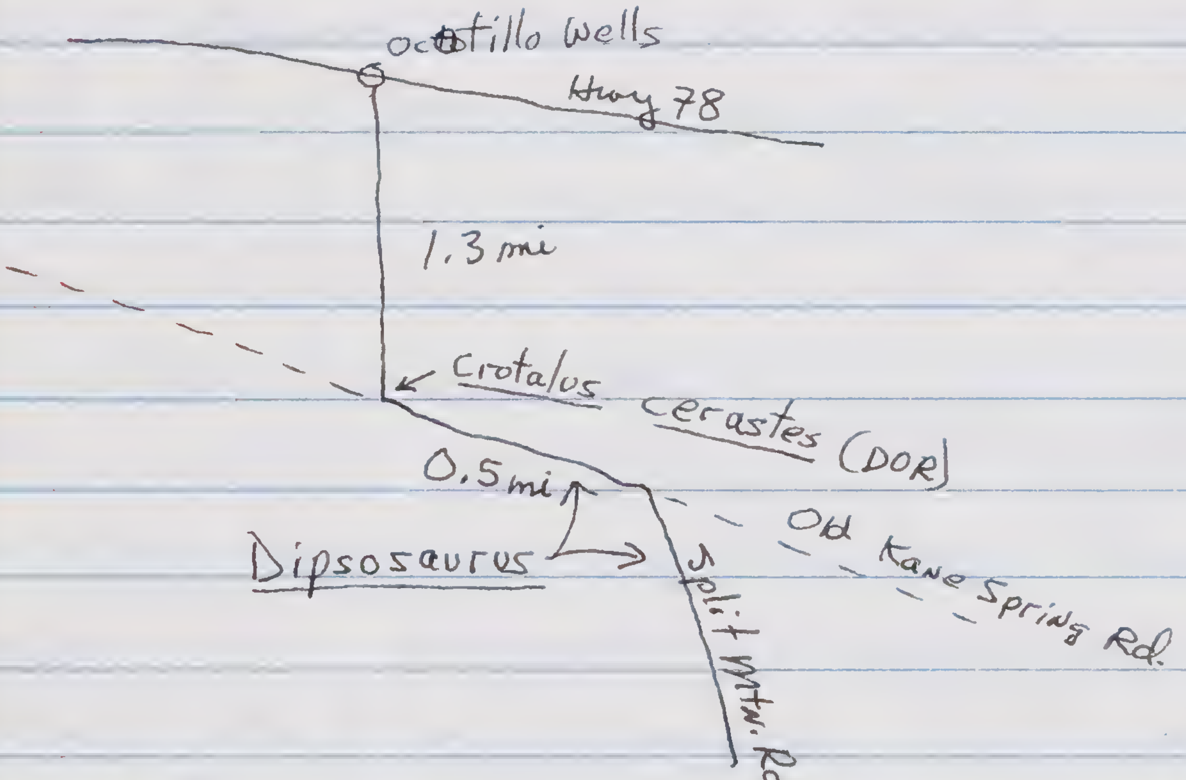
30 April (cont.) Area where we saw lots of Dipsosaurus, some very large, was in the vicinity of the intersection of Split Mountain Road & Old Kane Spring Rd., ≈2 mi S. Ocotillo Wells.



The desert iguanas were along roadside on elevated rocks and the graded soil ridge. They seemed to have full stomachs, very warm bodies, and weren't especially wary. We also saw several Uta basking on the rocks, including one pair lying in contact.

1 May Vicinity of trash dump dunes, ≈5 mi E. of Christmas Circle, Borrego Springs, San Diego Co., California
First drove down paved spur to dunes at dump. Kristine noosed a large ♂ Uma notata (bright orange belly patches) and

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1 May (cont.) while I was holding it, it escaped. Saw several Uta along roadside and I noosed one. At the parking area of the big dunes we saw a large Cnemidophorus and found where a cerastes had crawled out of a burrow, made a pit, and returned to a burrow. Photographed it. Saw numerous Uma (couldn't get close to them) and several Dipsosaurus (caught 1 ad & 1 juv.). Kristine found 1 Phrynosoma turd w/ large black ant in it. I tried to noose an Uma that went in a burrow. Twice after 2-3 minute intervals it reappeared at the mouth, but couldn't get it. Left at 1203 hr. It was hot & sunny till about 20 minutes ago - now overcast.

Next went N. on Pegleg Rd to R turn on sandy rd. Saw many Dipsosaurus, some Uma & Callisaurus. Looks like a good road. Put red flag where we turned around to return (9352.6)

9352.7 - I spotted a Urosaurus graciosus basking ≅1m up on edge of an Atriplex. Missed it but noosed another (♂) in same bush.

9353.5 - turn S. on Pegleg R. (where telephone line crosses Pegleg Rd.).

9355.0 - Jct. Palm Canyon Rd.

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1 May (cont.) 9368.5 – As we are heading out to the dune road on Palm Canyon Rd., a DOR *Pituophis* since we came out this morning. Now 1648 hr. Thick grass, *Atriplex*.

9369.6 – Turn N. on Pegleg Rd.

9371.2 – Turn ESE on sandy road.

371.4 – fork at large trees, go right, then left at second (immediate) fork.

372.0 – Turn around. Saw only a few *Uma* and 2 *Phrynosoma* turds – 1 w/ red ants & 1 w/ red and black ants.

372.7 – back to fork by big trees (1748 hr) only a few small *Uma* seen in last few minutes. Sun behind clouds. Going down sand road to the ~~N~~ SSE.

372.8 – start down original rd. again.

373.5 – Turn around.

374.3 – Pegleg Rd – 1832 hr, turn S.

375.9 – Turn E to dump.

376.3 – Turn E into dunes.

About 2000 hr there was a tremendous storm w/ lighting, thunder, hail, and so much rain that the streets were several inches deep w/in a few minutes. Lasted on and off for more than an hour. We drove to Pegleg Rd. & back ≈2100 hr but saw nothing.

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2 May 9399.8 - 0843 hr - at fork w/ big trees on dirt road off Pegleg Rd. Sunny, starting to warm.

9400.4 - 0901 hr - turnaround. Saw 2 *Uma*, a groundsquirrel, and lots of ants.

9400.6 - very fresh *Phrynosoma* turd.

9400.7 - 1025 hr - back at our flagged site where there were several turds yesterday, but no horned lizards in almost 90 minutes. Several round tailed ground squirrels and several *Urosaurus*. Noosed three of the latter: a ♀ on an *Atriplex*, a ♂ w/ orange throat on a large *Larrea*, and a ♂ w/out an orange throat on an unidentified shrub. All were in sun, flat on limbs when seen,

9401.1 - just past grove of big trees on way to Pegleg Rd. Photographed a *Gambelia*, which ran in a burrow containing baby ground squirrels

9401.3 - Pegleg Rd., turnaround for one last try.

9401.8 - a few meters N. of the flagged *Phrynosoma* area, an ad. *Gambelia* w/ regenerated tail. Also, seeing numerous *Dipsosaurus* and *Uma* now.

9402.1 - turnaround. See following page for addendum. (Aug 22)

9411.9 - DOR *P. platyrhinos* on Salton Seaway in Anza Borrego Desert State Park. By a wash w/ ocotillo and creosote, lots of rocks.

9417.3 - Imperial Co. line.

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2 May (cont.) 9419.9 - DOR Cnemidophorus.

9421.5 - DOR Dipsosaurus.

9425.0 - Turn NW on Hwy 86 to Indio. 1248 hr.

9466.8 - AOR/DOR Pituophis on I 10, 1405 hr., hot! Hit by cars behind us.

9467.7 - Washington St. Exit. Stopped to get a room & pickle the DOR's before heading to Washington St. localities.

One thing I failed to note above, concerning the sandy road we drove several times 5 mi E of Borrego Springs, was the high frequencies of tail loss in every lizard species. Callisaurus was perhaps an exception, but we saw very few and caught none. One of the two Gambelia and several each of the Uma and Dipsosaurus were missing tails. Also, many of the latter two species that we caught or observed closely had regenerated tails. We take this to mean heavy predation, but saw no certain candidates. Coyote scat were frequent, and roadrunners seem common.

9495.4 - DOR Masticophis flagellum on Snow Creek Rd.

9496.0 - Uta on rock beside road.

9496.5 - went up boulders at end of road 'til 1800 hr. Noosed 2 Uta, 2 Petrosaurus, 3 Sceloporus orcutti. This is at the end of Snow Creek Rd.

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2 May (cont.) 9497.4 – Saw large *Sceloporus magister* and noosed a juvenile, just as sun went over the ridge. They were on roadside boulders.

9497.55 – turn left (W.) on sandy road from Snow Creek Rd.

9497.8 – back out, turn N. on Snow Creek Rd.

9498.6 – searched dunes & wash to N. of road. Many ?? snake tracks, no lizard sign.

9499.1 – Jct Hwy 111

9537.9 Washington + 38th St. Coleonyx 9:30 pm

9542.0 E on Thousand Palms Cyn. Rd.

9546.8 S on Dillon Rd. 9:45 pm

9552.2 *Crotalus cerastes* DOR (small)

9555.5 Berdoo Cyn. Rd. turn up

9556.5 turn-around

9557.4 Dillon Rd, turn S.W.

9561.7 *Crotalus cerastes* DOR (lg) 10:18 pm

9563.5 I-10 & return to motel. Moon (≈full) came up just as we found the second *cerastes*.

3 May Walked around big dunes NW of jct. of 38th St & Washington St., Jeff Kaufmann's old *Uma inornata* study area. Saw lots of lizard & sidewinder tracks, but no animals. When we started at 0730 it was cool & windy, but by 0840 it was getting hot. Very sunny.

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3 May (cont.) Stopped Joshua Trees E. of Yucca Valley. Saw *Uta*, *Scolopendra*, and caught 1 tiny *Xantusia*.
626.8 (just E. of Joshua Tree) AOR *Gopherus*.
Stopped for gas in Twenty-nine Palms. Owner had lived there 45 years and last year saw first two leopard lizards (*fide* his description and recognition in my Field Guide). Said one contained a horned lizard and another "with red spots" threw up an "iguana".
640.7 - turned N. from Hwy 62 on Adobe Rd.
642.7 - turn R. on Amboy Rd.
644.1 - Missed a small adult *Masticophis flagellum*. Found it in a bush, but it dashed out one side and into a hole. Dug w/out success.
647.0 - AOR *Dipsosaurus*, others on the berm.
666.1 - *Uta*, *Dipsosaurus*, *Cnemidophorus*.
690.3 - Jct. Amboy Rd. & National Trail Hwy. Small adult *Dipsosaurus* eating carrion on pavement. Uncertain *what* the carrion was.
692.6 - Chased basking *Sauromalus* into crevice in black lava rocks.
724.4 - photo of flowers and Sleeping Beauty Mountain, W. of Ludlow.

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3 May (cont.)

Met Jeff Kaufmann at his Pisgah Uma study site. Saw Uma, Callisaurus, & Cnemidophorus — noosed one adult whiptail while standing around eating lunch. Lots of yellow flowers — Jeff said that R.C.S. says more flowers than he's ever seen here.
We walked ≈ ¼ - ⅓ way across lava flow towards crater to a place where Jeff saw a Crotalus mitchelli twice. On the way back (≈1830hr) as I topped a ridge I heard then saw an adult Crotalus crawling up the smooth lava surface toward me. Caught it.
Then walking across flat area between flow and the road we found a Phrynosoma platyrhinos on a small rock w/ it's back perpendicular to the sun. Forgot to note that driving to the pullover where we started across the flow, I noosed a Callisaurus

789.6	Chionactis on National Trail Hwy. (Amboy Rd. going to 29 Palms)		8:30 pm
793.7	Crotalus cerastes	AOR (killed)	8:40 pm
796.0	Arizona elegans		8:45 pm
806.4	C. cerastes	AOR	9:02 pm
812.5	C. cerastes	DOR (lg. smashed)	9:10 pm

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3 May (cont.) 813.1 C. cerastes AOR (killed, in plastic sack) 9:15 pm
821.5 Adobe Rd., turn S
823.5 W on Hwy 62. 9:30 pm 72°

Some final notes on today. The sidewinder tracks at Washington & 38th streets were pretty easy to read — only plant cover (especially Russian Thistle) would have impeded trailing them. As for Xantusia, I searched a dozen or more perfect looking Joshua tree logs and found only centipedes and the one tiny specimen — the adults must be (?) in the logs in midday. Saw many Dipsosaurus along Amboy Road, especially the N. slope. The lava flow at Pisgah was very impressive to see and very difficult to walk on. Only sparse vegetation, yet we saw lizard feces. The Crotalus mitchelli rattled loudly before seen and crawled continuously — we couldn't make it coil for more that a few seconds at a time. It is a very dark snake and was not easy to see on the lava. The first three snakes on the road were collected driving up the N. slope from Amboy, S. on Amboy Road.

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4 May Got out to dunes at 38th & Washington ≈0915 h. Saw tracks of lizards and a sidewinder, and a few very wary ~~[illegible]~~ _Uma_ in the vicinity of the 2nd windbreak driving W. from the intersection. People shooting a lot. Drove up and down 38th street, turned N on Washington & stopped at the next dune. Saw _Dipsosaurus_, _Uma_, _Cnemidophorus_ – all very wary and hot – and Kristine found a _Phrynosoma_ scat, fresh of course!
Ate lunch and sat out the heat while Kristine went to buy a cooler and make a phone call. At 1408 hr heard on the radio that it's 98°F right now in Palm Desert. Note that in driving from Washington Street to here saw quite a lot of good looking dune habitat (w/ very little thistle) along 44th Street. Most of it had realtor signs posted though. Next went to the "Living Desert Reserve" and toured the place – still obviously in progress, and a nice educational thing for the layman. A poor comparison, however, to Arizona-Sonora Desert Museum or the Visitor's Center at Anza Borrego. Next went to Garnett Dunes, but we were in such a severe

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4 May (cont.) sand storm that it wasn't possible to search for herps. Then we checked rocks along Snow Creek Rd for basking lizards, hoping for a big *Sceloporus magister* I saw there earlier, but got nothing. It was very windy and the sun was dimmed by the sand. After this we headed for the UC Riverside Garage, where we shifted all our gear to Kristine's VW and turned in the Hornet — we drove ≈1350 miles. Went to Ontario for a room and supper, and will return to Berkeley tomorrow morning by plane.

10 May Jewel Lake, Tilden Regional Park, Contra Costa Co., California

Cold, partly overcast day. Went from 1030–1130 to visit one of my Zool. 107 students, Dana Kokubun, who is studying basking and aggression in *Clemmys marmorata*. We saw at least 6: 3 on a floating plank, w/ necks and limbs extended; one smaller adult in the water that tried unsuccessfully to climb on the plank (it was gaped at by the largest resident); one basking on a stump in the water; and 2 basking on tules at the water's edge.

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23 May Briones Regional Park, Contra Costa Co., California

Visited area near east (Alhambra Road) entrance to park. When we arrived at 0815 it was sunny, windy, and cold. Lots of pollen and hay fever! I took a group (this is a Zoology 107 trip) up by the four lagoons, then along a ridge that parallels the winding road from the parking lot to the first lagoons. As a result, we had to cross the very steep canyon separating the two ridges. The S. facing slope was dense chaparral with some areas of thick oak woodland; the N. facing slope was grassy w/ scattered patches of chaparral and very steep. We found Sceloporus occidentalis everywhere; transforming Hyla regilla at the first lagoon plus a huge calling male at the last one. Also at the last lagoon were 4 Clemmys marmorata basking on a tree trunk emerging near the shore. On the S. facing slope we got 3 Gerrhonotus multicarinatus: one juvenile under a board, w/ an intact original tail; one large adult ♂ (126 mm SV) basking in a poison oak tangle on bare dirt, with a large fresh gash on its

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23 May (cont.) back; and one adult ♂ under a log. Both ♂♂ had eversible penes and some traces of semen. There was an adult Taricha crawling along the trickle at the canyon bottom. When we returned to the parking area, learned that other groups had done well. Carol Baird saw a Masticophis lateralis and a fox; Robert Zink saw a large, opaque Crotalus viridis in a rock cleft and David Sherman (student) saw another crossing the road. Beth Braker and Stan Sessions saw a Coluber constrictor and 2 Thamnophis couchi around the uppermost lagoon. Oddly, no Pituophis or Lampropeltis seen, although I walked a line of about 50 students over a grassy area looking for them.

24 May Briones Regional Park, Contra Costa Co., California
Met ≈40 Zoology 107 students and 5 teaching assistants at the east entrance at 0815. Sunny, not as cold and windy as yesterday. We walked in groups to the first lagoon, seeing a few Sceloporus occidentalis along the way, but spent the rest of the

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24 May (cont.)

morning more or less in one large group as I wanted to insure all saw a *Crotalus*. We walked a line over grassland near the first lagoon w/out seeing any *Pituophis*. Saw numerous transforming *Hyla regilla* and a swimming *Thamnophis* at the first lagoon. Then walked up the east facing grassy slope beyond 1st two lagoons, to fork in dirt road just past the fence, then up the winding dirt road that ascends the ridge of the E. facing slope. We were heading for a NE facing boulder outcrop where Zink saw a big *Crotalus* yesterday. On the way I sent a woman student up a grassy slope on the left to check some boulders and she immediately found an adult *Crotalus viridis* stretched out in the grass. It rattled half heartedly and sprayed musk when I picked it up. Seemed fat, though I couldn't detect any distinct food items. Had only 3-4 segments and was ≈ 80 cm long. Released it after photographs. Couldn't find

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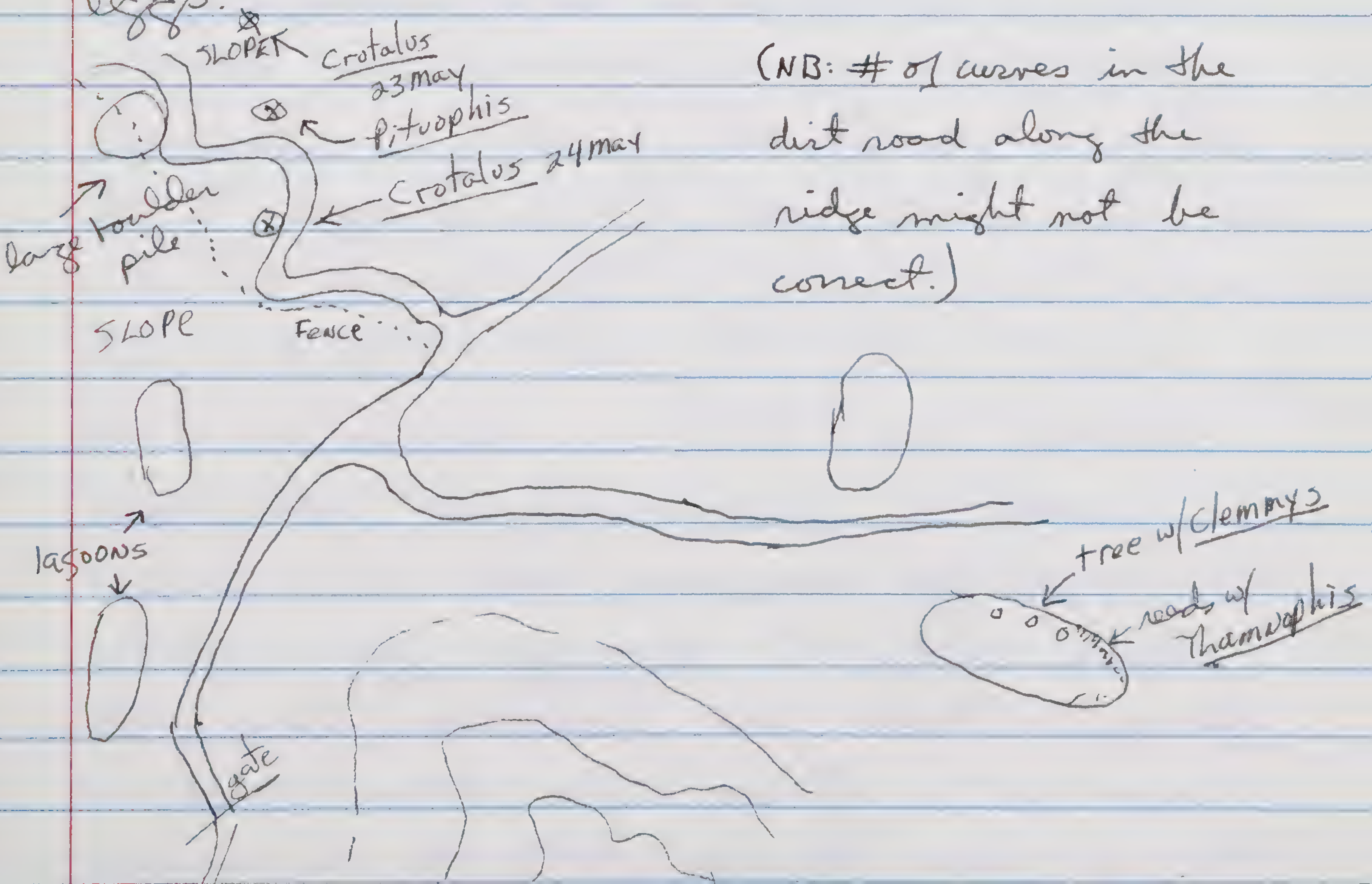
24 May (cont.) a rattler at Zink's boulders, but Rich Ostfeld found a very reddish adult *Pituophis melanoleucus* crawling in grass at the base of the hill. It was calm until I repeatedly teased it w/a finger, finally hissing and striking a few times. Next we marched back to the 4th (farthest) lagoon and saw 3 *Clemmys marmorata* basking on the same tree limb as yesterday. Also found 2 *Thamnophis couchi*, from one of which I palpated a partly digested three spined stickle back fish and many small fish (?) eggs.



(NB: # of curves in the dirt road along the ridge might not be correct.)

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29 May Left Berkeley ≈ 7PM w/ two students on Zoology 165 field trip to Mojave Desert. Met John Cadle, Paul Licht, and 9 other students at the W side of the Desert Tortoise Preserve. We arrived ≈ 0130 and went right to sleep. Woke ≈ 0730 for breakfast w/ everyone and Ronald Marlow

30 May Desert Tortoise Preserve, ≈5 mi N. California City, Kern Co., California
Walked around from ≈ 8:30 – 12:15. Nice morning, getting hot at the end. We saw many Cnemidophorus tigris (incl. at least 2 pairs in constant tandem, ♀ feeding); Uta stansburiana; Gambelia wislizenii (≥2 ♂♂, 2 females in rich red color); Callisaurus; Crotalus cerastes (not seen by me); and 3 Masticophis flagellum. 2 of the M. flagellum were at least trying to copulate, and we took many photographs. Especially impressive was the way in which the ♂ tapped the ♀'s head down when she started to move off. I caught and measured them: ♀ 1076 + 385 mm, ♂ 978 + 35 mm. Ate lunch, shopped in Cal City, and moved on.

Pisgah Crater, San Bernardino Co., California
Arrived ≈ 1630, walked over past Jeff Kaufmann's study area. Saw Uma + 1 melanic Chionactis, 2 Crotalus cerastes, Uta, and Cnemidophorus. One adult C. cerastes was barely visible at the mouth of a small burrow in the flats near the road. A small

Heere, H.
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30 May (cont.) one was under a small lava rock propped ≈10 cm above sand, out on the lava flow. After supper, four cars hunted the blacktop road from Newberry Springs to Amboy. Got several Chionactis, 1 Phyllorhynchus, ≈10 C. cerastes, 2 Arizona elegans, 1 Dipsosaurus, and 4-5 Coleonyx. The Chionactis have yellow interspaces that are tinged w/ orange or rust color. The one found crawling on sand in the lava at ≈ 1830 hr was pinkish gray w/ a faint reddish middorsal area.

31 May Walked along the creosote flats, up into the lava flow and back to camp from ≈0830 - 1130 hr. Saw numerous lizards: Phrynosoma platyrhinos (1 juv. was very gray-black all over), Uta, Dipsosaurus, Cnemidophorus (several traveling in pairs), Urosaurus graciosus, Sauromalus, Crotaphytus bicinctores (a pair, ♀ w/ orange spots, both very melanic), and Callisaurus. One student saw a Gopherus on the lava flow. After lunch we had demonstrations on thermal and exercise biology led by Paul Licht (C. tigris was run to exhaustion in 14 sec.!). Then went to Jeff Kaufmann's apartment in Newberry Springs for showers. At about 1600 we walked from our campsite W. to Jeff's Uma study

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31 May (cont.) area. Along the way saw only Uta and Cnemidophorus. Jeff demonstrated stomach flushing and described his research. Next we searched the lava while walking back to camp, finding more lizards, one Gopherus in a burrow, and one Crotalus cerastes. The Crotalus was coiled exposed in sand among the lava rocks, partly in sun. Paul found a Chionactis crawling in sand while sun still up, among the lava rocks. This one was not melanistic — interspaces were bright yellow, with fairly distinct orange secondary bands. After dark three cars went road hunting — saw Arizona, Phyllorhynchus, Coleonyx, C. cerastes, and Chionactis. Note the last two nights there was a bright full moon and it was windy.

1 June Up about 0630 to move on to Darwin Falls.

7.6 mi S. Jct of Searles Station Rd on Trona Rd,

Stopped here in creosote scrub to catch a small adult coachwhip crossing the road.

My car missed the last short right turn to the Darwin Falls parking and went 10-12 miles over the range. A spectacular drive on a steep 1 lane gravel road, beautiful rock formations, and many Sauromalus. We reached the right road after much wandering and walked to the

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1 June (cont.) falls. Had a nice swim and saw *Bufo punctatus*, *Callisaurus*, and *Gambelia* in the canyon. Due to a low tank, I drove to Trona for gas, followed by Jeff Kaufmann for safety. Returned in time for road hunting. We sent three cars out on nearby roads, and got 2 juv *C. mitchelli* (1 kept - other bad DOR), 1 *L. getulus*, 1 *Sonora*, 2 *Coleonyx*, 2 *C. cerastes*, 2 *Phyllorhynchus*, and 1 *Hypsiglena*. It was warm and dark but clear. Saw a gray fox (*Urocyon*) dash across the road as we pulled up to our campsite.

2 June Left the campsite ≈0830 to head home via Walker Pass and the leopard lizard reserve at Pixley. Saw a car hit an adult *Crotalus viridis* on the road in Kern Canyon. Walked around for ≈45 minutes at Pixley; saw 2 dead and dried *Phrynosoma coronatum* in the dirt road, and 3 ♂ *Gambelia silus* in the grass. All had a rosy cast, and at least two (one I caught, one seen at close range) also had lemon yellow around the ventral part of the tail base. Got a good close look at a prairie falcon flying low

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2 June (cont.) over open grassland as we turned N onto Hwy 5 from Hwy 152 from Los Banos. Arrived in Berkeley ≈ 2000 hr.

4 June Corral Hollow Rd., Alameda & San Joaquin Counties, California
Left Berkeley at ≈1700 w/ 5 students on a Zoology 107 trip. On Mines & Tesla Roads saw various birds, Spermophilus beecheyi, and 1 dead Pituophis (not especially fresh). saw 2 more Pituophis on Corral Hollow Rd., 1 fairly fresh and one not. At Castle Rock on the Connolly Ranch we saw owls, Antrozous pallidus, a Scaphiopus hammondi, and a Bufo boreas. Both toads were active on the surface in dry grass. No live snakes. It was quite cold and windy, and we had a good shower (a surprise to longtime residents) in Berkeley today. Got home at 1 AM! We did see at least 1 Urocyon (possibly 2) cross the road on our way into Livermore.

6 June Corral Hollow Rd, Alameda & San Joaquin Cos., California
Everything same as two nights ago, except no carnivores, only one snake (an AOR Hypsiglena,

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6 June (cont.) HWG 981), 1 *Scaphiopus* (AOR), and several *Bufo boreas*. The toads were all very flattened against the pavement, as if warming. A student pointed out what he said was an occupied eagle nest – a large stick nest to the S. as one ascends the pass going E. The nest is to the left of the trunk and ≈½ up an isolated oak on a distant hillside.

13 June Left Berkeley at 1100 w/ John Cadle to drive straight through to Fort Worth to attend the ASIH meeting. Saw 2 DOR badgers on I5 in the valley, a few *Holbrookia texana* and some *Cnemidophorus* at a roadside rest area in SE Arizona along I10. Encountered 100+ F in the El Paso – Van Horn area, and finally arrived ≈0200 on Sunday morning the 15th.

19.5 mi WSW Wickett (FM1219 exit) on Hwy I20, Ward Co., Texas

14 June Here I spotted a dead javelina on the roadside – what I took to be a small adult w/ good side tusk. Surroundings sparse desert scrub, mainly *Larrea*. I thought it might be a range extension, but it was rotten so we left it.

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26 June 2.9 rd miles NW of Hwy 163 (near Moab) on Hwy 128,
Grand Co., Utah
Looked on red boulders and talus slope here, below steep cliffs that are the SE wall of the Colorado River Canyon. Saw only Sceloporus undulatus (slight reddish cast, one ♂ w/ recent injuries) and Uta stansburiana (very heavy reddish overwash). Collected 3 and 2, respectively. This was ≈1045-1135 hr. After lunch went to Arches visitor center and ask woman ranger about Phrynosoma - said to see Carl Mikesell, a retired man who lives at Pack Creek Ranch, a few miles SE of Moab, up in the pinyon-juniper slopes of the mountains. A nice drive, and on the way noosed 2 Crotaphytus collaris. Met Carl, and he took us to the end of the pavement, just past Pack Creek. 0.5 mi above his house I found a bright yellow & green Crotaphytus flat on a boulder (≈1 m diameter) facing the sun. This was in sparse juniper & sage, very rocky. At 1.5 mi past his house, just past Pack Creek, we climbed a slope to the left of the dirt road and I tried repeatedly to noose a Cnemidophorus velox.

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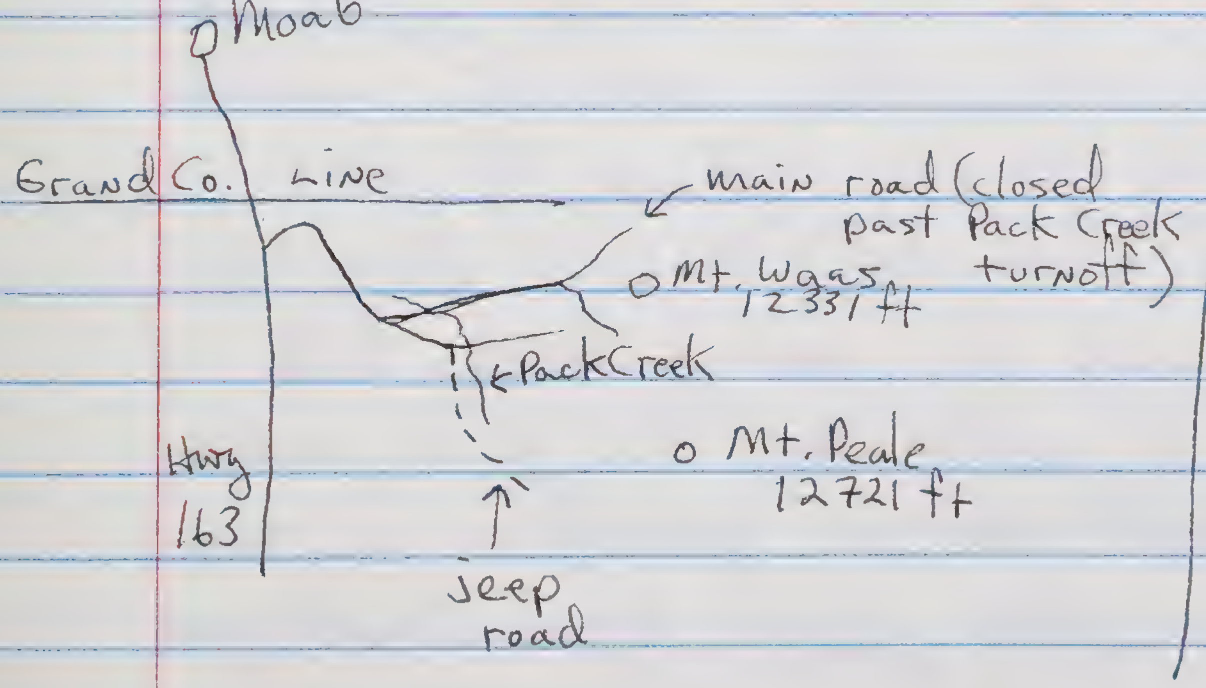
26 June (cont.) Next left the VW at Pack Creek and went ≈3/4 miles up a dirt jeep road, to ≈8000'. Here there were scattered sagebrush flats w/ numerous Sceloporus graciosus. Found and released 1 juvenile Phrynosoma douglasi in the road as we were returning to the jeep. Went back to Moab for supper, then road hunted to Pack Creek and back. Got a live Bufo woodhousei and an AOR juv. Pituophis on Hwy 163. NB: Of the two juvenile Crotaphytus caught earlier, the ♂ had distinctly blue and yellow colors, though not so dramatic as the adult ♂! After ≈6 hours in an ice cooler, I can not distinguish the two on the basis of color, except that the little male has some yellow suffusion on the front legs.



Hwy 163 → Pack Creek turnoff is 5.3 mi

Hwy 163 jct. w/ main rd. to 4th East Street in Moab is 6.5 mi.

Main Rd. not named on my map - 1st left in San Juan Co. going S. on Hwy 163.

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26 June (cont.) Carl Mikesell was born 1917 and lives in a log cabin, which he showed off. Sleeps on a cot in his lawn. Has an 11 year old airedale named Sandy, that lost both testicles in a fight w/ 3 coyotes. Carl says Sandy's even braver now, since he has nothing to lose. Carl hunts arrowheads, which is how he runs across the *Phrynosoma* and an occasional "little timber rattler." I gave him a nice intact arrowhead I found at the uppermost site we visited, and he said it "paid for the trip."

27 June Left Moab late morning, and saw a very DOR *Masticophis taeniatus* ½ mi N. of the entrance to Arches National Park on Hwy 163. Arrived Provo ≈ 4 PM, got "Motel 6" room, and headed for a *Phrynosoma* locality suggested by Wilmer Tanner. It is the first "ledge" S. & W. of Saratoga, on the W. side of Utah Lake and E. of Lake Mtns. Drove up a dirt rd that turns W. from Hwy 68 3.5 mi S. of its jct w/ Hwy 73. Most of this area is a slope of the Lake Mtns, w/ thick sagebrush and many tall ant nests.

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27 June (cont.) We drove past some sort of quarry operation, then walked up into junipers and boulders. This was from ≈1700-1930, Saw only Uta (basking on rocks along road cut) and 1 nice big ♀ *Sceloporus graciosus*. Next parked at the quarry and walked across the sage flat to the upper edge of the ledge. It is a long, massive outcrop, very visible from (and ≈ 0.4 mi W. of) Hwy 68. Here I found a small *Pituophis* crawling into a crevice at the base of the rimrock. I suspect it was hunting, since this would seem a good time (≈1950 hr) and place to catch sleeping lizards.

29 June

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10 August Went to several sites E. of Grizzly Peak Rd., in the vicinity of the entrance to the U.C.B. animal Behavior Station entrance, to collect Sceloporus w/ Mark Wilson. This is in the vicinity of where we radiotracked the Crotalus viridus, so we had made daily visits from 24 July to 3 August, and on 9 August to map the rattlesnake's movements. We usually saw several adult Sceloporus. Today between 0930 and 1045 we caught 9 adults and saw ≥4 hatchlings. These are the first hatchlings we've seen this year.

SV	tail	wt.	sex
72mm	110mm	14.7 g	♂
69	97	13.9 g	♂
69	93	13.6 g	♂
62	91	9.6 g	♂
68	78	12.2 g	♂
62	75	9.1 g	♀
68	83	10.8 g	♀
69	99	11.1 g	♂
58	74	8.1 g	♀

Saw one of the largest males come from out of a brush pile to the highest point along a horizontal branch, bob once

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10 August (cont.) or twice, then slowly lift its tail and defecate.

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3 October 5 mi N. California City, Kern Co., California

Left Berkeley after supper last night and drove to Bakersfield w/ Kirk Schwenk, Mark Wilson, and Darrie Garghorn. Picked up Ron Marlow at 0630 and were on the W. edge of the Desert Tortoise Preserve by ≈0830. Kirk and Ron went on the Reserve and saw 2 Gopherus (♂ & ♀ basking), a Masticophis skin, a juvenile Phrynosoma platyrhinos, a juvenile Gambelia, and an adult Callisaurus. Kept none of these. Mark and Darrie and I stayed on the public property to collect lizards for feeding experiments. Saw numerous Uta stansburiana basking on dead branches on ground - very wary, and we noosed only 3. Saw 2 Cnemidophorus tigris, noosed one. I spotted a juvenile Gambelia, which proved to have a severe abdominal wound that had begun to heal where sand had dried on it; collected and pickled it. Left ≈10:45 for Cal City and lunch. Also, I found a small adult ♂ tortoise basking ≈0900. In late afternoon Ron, Mark, and I drove to the Desert Tortoise Preserve Interpretive Center - got a good view of a flying

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3 October (continued) prairie falcon. Ate supper in Mojave and road hunted to "Grasshopper Wash" via Oak Creek & Tehachapi - Willow Springs Roads and back, then up Hwy 14 to Phillips Rd. and then over a view miles of dirt roads west of the Tortoise Reserve. Got 4 snakes and a DOR Sceloporus, saw a few Dipodomys and a burrowing owl.

4 October Pisgah Crater, San Bernardino Co., California
Woke up early and made it to here by 0815. walked around till ≈1100. Saw young Uta, Uma (2 only), and Cnemidophorus, plus a few adult Cnemidophorus and Callisaurus. Kurt heard a noise by a ledge in lava rubble, and we located a small adult Sauromalus w/ slightly regenerated short tail. While we were trying to get it out heard a loud rattling behind us and saw a young adult Crotalus mitchelli go under a rock pile. Dug until it came crawling out very fast, still rattling and biting when pinned. Caught it. After lunch in Mojave went to Afton Canyon for some walking in the shallow waters of the Mojave River,

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4 October (continued) Returned to Cal City for supper ≈1800. Road hunted till 2300, via road up Jawbone Canyon to Walker Pass Rd & then back via Hwy 14 and Neuralia Rd. Got 3 Pituophis, 1 Bufo, 1 Crotalus cerastes, and 1 Dipsosaurus. The Dipsosaurus was asleep on the pavement ≈2230 hr.

5 October Drove back to Berkeley via Walker Pass Rd. and the Kern River Canyon. Stopped in Joshua trees a few miles SE of the pass and caught ≈15 Xantusia (several very small) and a juvenile Masticophis flagellum that was under a Yucca log at ≈0900 hr. Very fast and snappy. Also saw several Uta, a juvenile Cnemidophorus, and a golden eagle soaring. Met a man named Louis Self, who very politely informed ~~of~~ us that we were on his land and that he preferred we didn't collect anymore (no fences or signs). He was concerned about limbless lizards, which he sees occasionally, and seemed to have a detailed familiarity w/ many local vertebrates. However he referred to shooting a "lynx" that ate his quail, road a small Honda

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5 October (cont.) scooter, and said there were 3 rattlesnakes there – "timbers" "diamondbacks" and "mojave greens". Perhaps he meant C. viridis and C. mitchelli by the first two. Said he had washed some "immature salamanders" out of some sort of water pipe on his property, and that there was a spring nearby. From his description (response to Marlow's questioning) the animals could have been Batrachoseps. The locality is a slope below high, rocky, open hillsides, with many Joshua trees at the level we were hunting, which was 3.9 rd. mi. SE of the Walker Pass sign. Dropped Marlow off after lunch in Bakersfield and made it into the MVZ ≈1800. The overall impression was of few reptiles seen (10 snakes, a few dozen lizards), and most of them juveniles – although it was very hot in the afternoon (≤100 F). Very few flowers too.

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24 October Tilden Regional Park, Contra Costa Co., California

Walked about for 2 hours w/ Jan Mitchell on an open, W-facing hillside – grassy w/ several large boulder outcrops. Chilly & overcast. Found a hatchling *Diadophis* on dry ground under a rock (<40 cm diameter). It had a uniformly orange belly, unlike the local adults (ie., not yellow). It tail displayed when touched roughly on the head. Released it at the same place. No lizards seen.

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16 November Left MVZ with Mark A. Wilson, former student in my herpetology course, for 5 weeks in Peru and Chile. Seated next to Chuck Hart, a fisheries/boat builder type from Seattle who had formerly lived in Peru for years. Got on plane in S.F. at ≈ 1715, finally ate ≈ 2200. Long flight.

17 November Arrived Lima airport ≈ 0630, after interesting very low pass over seaport - could see numerous small fishing boats. Went to Pension Alemana, Ave. Arequipa 4704, and got their last room, in an annex on adjacent sidestreet. Went to deliver letter from D.B.W. to Sr. Jose Koechlin, a Peruvian businessman who's into tours, wildlife preserves, etc. Agreed to carry some things to Cuzco for him. Changed some money, then went to permit office (helpful but complicated) and to Museo Javier Prado. Nelly Carrillo & the Director, Fenega, were out so we looked at their exhibits and left for a nap in the pension (very cold shower). There were several snakes constricting in the exhibits, none constricting "properly" á la Greene. Supper at La Pizzeria in Miraflores was 5300 soles, room 4250, por los dos.

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18 November Flew to Cusco, arrived at Hotel El Dorado at ≈0930. Slept 'til noon, walked around Plaza de Armas, and ate lunch. At 1400 took Lima Tours on a route to ruins above city and about town. Supper was trucha a'la vasca, trout w/ garlic & tomato sauce - excellent. Saw llamas, alpacas, burrows, sheep, & many Indians on tour. Also very old ("85") playing an instrument and chanting musically but monotonously (to me).

19 November Rose early and caught the 0700 tourist train to Machu Picchu. Our reserved seats were across from a strange Latin couple: he looked like the late Nicaraguan dictator, w/ sun glasses, pot belly, etc & chain smoked. She wore heavy lipstick, dark glasses, a fur jacket, and bright red shoes and pants. First to series of switchbacks - each ending in a sharp jolt when the train stopped - to rise out of el valle de Cusco. Then gradually descended from over 12000 feet to ≈6000 feet in the gorge of the Rio Urubamba. Along the way couldn't see mountaintops for clouds, but surroundings for first ≈2 hours were very open - grassland, cattle, Indians. Later became steeper near tracks, some cacti, shrubs, bromeliads, and eventually

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19 November (continued) rather like cloud forest with rather tall trees in places. Arrived Machu Picchu station ≈1115, took bus up series of switchbacks – ≈2000 feet up in <20 minutes. Suddenly one rounds a bend, sees the ruins, and it *is* spectacular. We walked around the ruins for ≈2 hours w/ our guide before eating lunch at the restaurant. Weather was cloudy w/ occasional drizzle when we arrived, but by 1515 when I started down it was hot and sunny. After sun came out I saw 2 of one species of *Stenocercus* (cf. *S. crassicaudatus*) and one of the other – all looked like *Sceloporus*. First two were on large stones, the other on a step. All were wary. On the way back I wanted some solitude, so spent a lot of the time before dusk on the platform between cars. Air was cool, smoke from locomotive was acrid but not bad, and the noise totally obscured everything but the views – which were spectacular. There were many snow covered ridges, w/ the late afternoon sun glistening gold on them. At one point

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19 November (continued) we stopped a moment at a small village, and I photographed a ≈full moon in a deep, royal blue sky, shining down from a bridge on a field bounded by a pretty terra cotta fence. Very beautiful. Arrived back in ~~Lima~~ Cusco ≈2130, tired. Forgot to mention that as we boarded the train in Cusco I ran into John Behler, Curator of Herpetology at the Bronx Zoo, who was leading a tour. On way back, Norma McCaw, a British woman we took up with, convinced an old American couple she didn't like sitting w/ to switch seats w/ us, and we thereby avoided another 4 hours w/ Smokey Samoza and his sweetie. Supper in Cusco at La Roma, not especially good.

20 November Got up at 0530 for trip to airport for early flight, but arrived to find all flights holding. One Aero Peru did leave ≈10, but at 12:30 the Faucett Air flights were cancelled — back to the hotel, lunch, and a nap. Later took in the Indian market: hundreds of stalls, women cooking and nursing children while seated on the cobblestones,

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20 November (continued) human wastes here and there — a real potpourri of sights, sounds, and smells. Had a nice time bargaining w/ a pretty Indian woman over a poncho. Her little niña looked ill — as do many — and Mark noted that we saw many babies but far fewer older children. For supper we first walked E. of the Plaza de Armas to La Quinta, a restaurant said to serve guinea pig. It was closed, but the walk was interesting — down & up narrow Inca streets, past the wall w/ the famous 12-cornered stone. (Incidentally, twice in Cusco we went by small portals in doors at night & saw an expressionless face staring out — at least once it was a soldier, but eerie none-the-less). Eventually had fine meal at the Turistas on the Plaza.

21 November This time we took off, and I got many photographs of the Andes. Back in Lima, our taxi ride to Pension Alemana was wild — almost hit by a dump truck. Accelerator pedal was shaped like a foot, toes and all! After checking in, went to see Jose Kechlein, to bank, and post office.

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21 November (continued) Then to Plaza de Armas and Lima Techniphoto, where they fixed Mark's Nikon on the spot. Next to a fine bookstore at Jiron Union 560, where I bought a book on Atahaulpa, a road map, and "Papel Sello Sexto" for my permit application. Then to Faucett for reservations and on to the Museo Javier Prado. Had a very nice visit w/ the Director, Ramon Ferreyra, and a phone conversation w/ Nelly Carillo de Espinoza. Then back to hotel, dinner, etc.

22 November Slept a little later and went to Museo Javier Prado for 10 AM meeting w/ Nelly Carillo, who arrived ≈10:30. Perfectly nice woman, and we had a friendly, productive conversation in Español for ≈1 hour. Traded publications, and I promised her a lizard pole. She showed us her collection, which included a couple of really interesting things. One was a large snake I took to be <u>Micrurus spixii</u> but which I then saw was an <u>Erythrolamprus</u> - it was exceptionally heavy-bodied and ≈.8-1.0 m long.

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22 November (continued) She had live Spilotes, Dryadophis boddaerti, and 4 Bothrops. Three of the vipers were B. pictus from near Lima – small brown snakes rather reminiscent of Agkistrodon halys. Photographed one – it had a prehensile tail, and sometimes seemed to sidewind as I hooked it about. The fourth might be B. barnetti – it is large and heavy bodied w/ large dark & yellow diamonds and a light head. Very aggressive – struck repeatedly & advanced toward me, all the while beating it's tail on the substrate. This snake is from Chiclayo and is known by the locals as cascabel. Photographed them both – neither looks at all like B. atrox, as they are said to (e.g., Parker, Schmidt & Walker). After visit, back to hotel to wash off the formalina (no agua in her lab) and by cab to Pueblo Libre. After much trouble, we located the Restaurant Piselli on Calle Mar and then took in the Museum of Anthropology and Archaeology. Then home, nap, supper. Borrowed typewriter from desk

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22 November (continued) clerk and typed all (?) documents for the Peruvian permit.

23 November Took it easy, slept, and read all day, leaving the pension only for meals. Getting a sore throat—from Cusco?

24 November A frustrating day. Packed everything and reserved airport bus pickup for 1700 to catch 1845 flight to Chiclayo. Went to permit office at 1030, turned in all my papers, and was told I must take a Peruvian student along. (No previous mention of this). I said this was impossible in terms of time or money, and they said come back at 1530 and I could have permit. Off to Jiron Union to buy clipboards at the bookstore, then back to Kechlein's secretary who called around and finally located formalina at Botica Inglesia, Jiron Caillona 336 (just off J. Union near Hotel Savoy) —a double irony! They weren't to open til 4, so ate lunch then went to the park to read until 1530. Sat in the Plaza opposite street of the permit office and talked w/ shine boys, then read. At 1530 walked into permit office and told to wait momentito. Almost immediately building shook worse that quake in Berkeley last year —I was on 9th floor, and the building was moving violently. A few seconds later, a

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24 November (continued) shorter, milder tremor. I suppressed all the exclamations that came to mind; all the office people were in a dither. Just as things calmed down I was called in and told "there is a problem." I asked for too many specimens - 6 would be the optimal number, unless I went to lengths in my "Plan of Research" to justify 20. Nothing said on this point previously, though I had asked for 20 from the start! After much discussion I agreed to 6, another wait a momentito, then told whole thing had to be re-typed and would be ready tomorrow! More discussion - I looked up word for discouraged and used it - and finally we agreed that I return at 12 mañana and get permit for 6 of each species! By now it's 1615 - called Mark & got him to change bus and air reservations, went back to pension. Learned that the "quake" was a huge explosion at some chemical plant. Talked w/ Jed Hoffman, staying at Pension Alemana, who works on the Condor Project near Bayovar. He's seen a Micrurus crawling about during daytime there - sounds like M. tschudii. No other snakes and no big lizards. He

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24 November (continued) says I should talk w/ Dr. Brach, head of the Proyecto Vicuña – says he's interested in some sort of national park for the Sechura Desert. Supper, reading, rest – I have a head cold.

25 November Slept late – feeling a little better. Took collectivo to vicinity of ministerio de Agricultura and walked around until found Proyecto Vicuña – Dr. Brach not in 'til 1 or 2. Caught cab to Botica Inglesia & purchased a liter of 40% formalina for S. 600. Caught cab back to Ave. Natalio Sanchez and met the permit people. Got a lecture on what I should do next time and then a permit to collect 6 of each species. Said I must allow 3 days on return for export permit! Next went to see Dr. Antonio Brach, who was just starting lunch in his office. Talked w/ him about conservation in Peru, Callopistes, etc., and he gave me a copy of his book, El ambiente en que vivimos. Next back to Pension Alemana, lunch, and left for airport at ≈1700. At airport learned plane was "1 hr" late. Finally boarded plane and took off at 2004. After >30 minutes in the air we made a steep turn and the pilot announced we were returning to Lima

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25 November (continued) because of engine trouble. About this time Mark pointed out a shower of sparks (?) outside... landed in Lima at 2104, stood around gate area w/ never a word of explanation, and boarded another plane and took off ≈2200! Arrived Chiclayo ≈2300 and got a room at the Hotel Tourista, then had an excellent steak etc for ≈½ Lima price at a small restaurant on the Plaza de Armas.

26 November Frustrations continue. Gustavo del Solar, man w/ Ranch in Olmos, is out until mañana. Can't get a car until mañana. Can't hunt lizards until mañana! (Forgot to mention the view on the successful flight to Chiclayo. A mat of solid clouds below and extending to the Andes; an almost full moon over the crest, and a thunderstorm w/ pink-orange lightening behind the peaks. Incredible! The view between plane and mountains was vast and comparatively tranquil, and the clouds were so solid as to resemble plant formations. For a while there were regular clumps raising above the

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25 November (continued) rest, such that it looked like scattered acacias on a savanna. Later it was a uniform spread of larger clumps, all contiguous, such that it looked like lowland rainforest. Having just been reading about reality, perception, etc. (Even Cowgirls get the Blues, 100 years of Solitude) it was very thought-provoking!)

26 November Woke up safely in Chiclayo and soon learned we can't get a car until tomorrow! Spent the day sleeping (I'm still sick), touring, etc. Staying at Hotel Tourista and mostly eating at Rest. Roma, just off Plaza de Armas — a steak dinner is less than $2 here, good, and about half what a meal costs at our hotel.

27 November After breakfast went to bank — took 45 minutes and five (5) people to cash traveler's checks. Rented car for a week from Avis, a Toyota that seems in good shape. After lunch drove north to a locality recommended by John Wright. First stopped at a little drink stand in Motupe (≈ 80 km N. Chiclayo) and asked about "iguanas" (Callopistes) and "cascabeles" (Bothrops) — man said there are no longer any around here — all dead now. Drove back to Cerro de la Vieja.

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27 November (continued)

7 Km S. Motupe, Cerro de la Vieja, Lambayeque Prov., Peru

This is a classic locality for Tropidurus and Phyllodactylus, and John Wright saw several Callopistes here. Talked to five men playing cards and drinking at the house on the W. side of the road and just S. of the Cerro. They gave me a beer and permiso to search the cerro, and were quite friendly. Said there were (are) cascabeles, though not many, that they are <1m long and have killed people. Said there are iguanas, that they go in their shelters at noon because of the sun. From ≈1430-1630 we climbed the S. slopes to the top and back, but saw only a few birds, numerous Tropidurus, and one old gecko egg under a rock (Phyllodactylus). First two lizards were T. occipitalis ♂♂, both under a dead, dried cow! When I heaved over the cow, they ran up the same mesquite tree and Mark noosed them both. Up in the boulders on the cerro (cow was at bottom, S. side) we saw ≥12 T. koepckeorum, or so they seemed – it's

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27 November (continued) a little suspicious that my two <u>occipitalis</u> are males and the three "<u>koepckeorum</u>" females. Killed and preserved all at 2100. Cerro de la Vieja is a strange place – like a S.W. U.S. mesa bajada, complete w/ columnar cacti. The vista from it is very barren soil (sandy) w/ numerous evenly (±) scattered mesquite(?) trees. Here and there are large cattle farms surrounded by cultivated fields, some sort of palms, and adobe houses. Saw two <u>caracaras</u> (?) on the way here. Made it back to Chiclayo just before dark and had a big Thanksgiving dinner of fish for me and steak for Mark at the Roma – our ~~the~~ 11th day in Peru and the <u>first</u> to collect lizards! Informed after supper that Señor Gustav del Solar, local ranch owner sympathetic to American scientist, will return tomorrow night from Lima. (car used < ½ tank to go ≈200 km – I put ¾ tank in before leaving, and it cost S. 2000.)

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28 November 7 Km S. Motupe, Cerro la Vieja, Lambayeque Prov., Peru
arrived here ≈0915, already hot & sunny. As we walked up to the dead cows at the S. base of the Cerro I spotted a ♀ *Dicrodon guttulatum* which Mark noosed (killed and preserved at 1330). Saw 6-8 other *Dicrodon*, all in open sand among boulders initially, though they moved through thickets when chased. They are very fast! Saw one large one chase a less bright smaller one ≈30 m, including 2-3 turns. Saw numerous *Tropidurus*, including an immature *T. occipitalis* on a mesquite out in the flats where we parked. At 0945 Mark saw a much larger (≈2 ft), black or gray & yellow spotted lizard, and I subsequently heard it (?) twice near the mouth of a burrow. As we approached this area at 1045 I saw a movement in a pile of cactus below the boulders and there it was — an average adult *Callopistes flavipunctatus*. It crawled a meter up to a ledge under a boulder, turned, outstretched, and paused about 10 sec. then moved up the slope, out of sight, toward the previous burrow.

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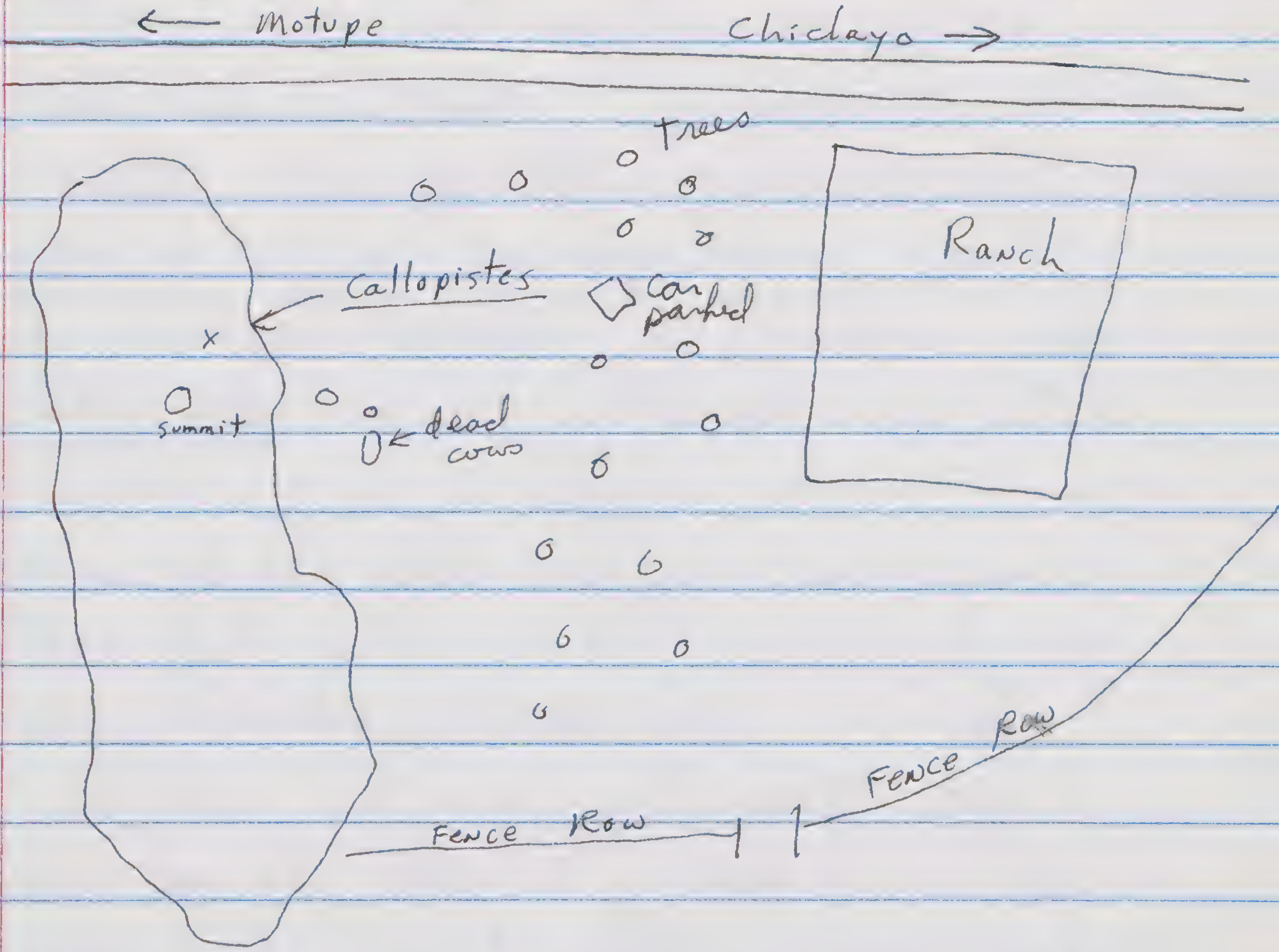
28 November (continued) I got a very good look at the entire animal, and agree that it's total length is probably ≈ 0.6 m. We returned again at 1145 after walking a fence row (saw nothing) but no sign of the Callopistes. Returned to Chiclayo after gas (S. 1200) in Motupe.



NB: Mark saw lots of droppings around the summit which we speculated were fox – but could they have been goat?
Returned to Chiclayo. Road hunted almost to Morope just after dark but saw nothing but trucks. Tried to contact Señor Del Solar again – he's still in Lima.

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29 November Got up early, but given breakfast, checking out, and a delay w/our passports being checked S. of the Cerro, we arrived ≈8:45.

7 Km S. Motupe, Cerro la Vieja, Lambayeque Prov., Peru

Walked around here til ≈1100 – saw only a few *Dicrodon* & *Tropidurus*. I worked the whole S. side & checked *Callopistes* site several times but saw none. Saw small green *parrots*. Mark noosed a male *T. koepckeorum* which I kept. As we left battery wires burned, we return to Chiclayo

2.8 Km N. Jayanca, Lambayeque Prov., Peru

As we were driving S. I saw a huge *Callopistes* at the left road edge, which started off as we stopped. It ran to a dense thorny fence row and disappeared. When first seen it was sitting w/ head high, perpendicular to road edge. This site (which is 0.8 Km N. of the Km 819 sign) has sandy desert & mesquite on the W. road side and rather dense trees on the E. (lizard) road side. The tree side is so dense it's almost totally shaded, and we could hear someone chopping wood. Saw *Tropidurus* and small *Dicrodon* in the fence row. After deciding lizard was lost we headed back to Chiclayo for lunch

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29 November (continued) and a chat w/ the Avis people. (Mark is now quite ill - fever, sore stomach, Inca quickstep etc.). Sat around all afternoon waiting for the Avis lady to return at 2 as promised, but she never showed. Eventually Mark cajoled a local mechanic into helping him fix things. Checked back into hotel, had big supper. As it turns out, all this trouble may be to the good - in the hall I met Frank Lowry and his wife, an American couple that teach in Negritos. They have seen Callopistes and have a fellow teacher, John Bowling, who hunts a lot and knows the area well. We are to look them up at the "Escuela Particular" or American School, Belco Office, in Negritos (no phone).

30 November Up fairly early and drove to Talara via Piura and Sullana, with a brief lunch stop in Piura. From Cerro la Vieja to past Olmos is rugged country, at times nothing but bare rock. Later the landscape is flat, fine sand, and low trees - very desolate the more so because it was overcast. Stopped and rolled two old logs beside the road SE of Piura, and one had a scorpion

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30 November (continued) and a pretty dark gray w/ lemon yellow belly, graved Phyllodactylus under it. Saw no other herps. Several times saw a small dark bird w/ a scarlet belly that I later learned is called "putilla" (little whore) because of the colors. Also a large, orange mottled hawk "Savannah Hawk" in a tree beside a rice field N. of Sullana. Numerous egrets there too. Arrived in Talara, went straight to Negritos to talk w/ Frank and Jeanne Towry and John and Nénida Bowling, who teach 8 grades of the American school here (run by Belco Petroleum Co.). John hunts a lot and has the skin of a large Callopistes he shot somewhere in the foothills (E. Piura Prov.). Says he's seen a few others, including a big one crossing the road ½ up the hill going out of Talara to Negritos. This is an aeolian sand dune area w/ a few low, broad shrubs. John went with us to get a room in Talara (Hotel Huaras, ≈$10/night for 2) and then took us to see Julius Boos — of all things, a friend of George Gorman's (UCLA) known to me

30 November (continued) from the literature. He turns out to be a very funny, fast talking Trinidadian ≈ my age who now works *here* for an Argentinean oil firm. He has two jars of pickled herps, among which are some *Dicrodon*, a medium *Callopistes*, a *Micrurus tschudii*, an *Alsophis elegans*, and some *Oxyrhopus fitzingeri*, plus some *Tropidurus* I didn't check out. Says he'll give me the *Callopistes* and the *Micrurus*. Says he's seen several *big* (≥1m) *Callopistes*, one of which he chased and it ran bipedally. Hasn't seen any *Bothrops*. Said he'll take us out for the day tomorrow. Had great dinner at the Belco Club w/ Towseys and John Bowling.

1 December Waited overtime for Julius and finally ≈0830 his wife showed up with the news he was tied up since midnight with a strike – so we set out toward Tobitos. Went as *far* as a military camp and returned to a big Quebrada (Pariñes?) we crossed on the way and spent 1½ hours walking about. Saw dozens, maybe hundreds of *Dicrodon*, mostly

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1 December (continued)

small or medium size, plus an occassional large red and blue male (?). They are fascinating. Often saw 4+ under one small bush, and maybe 10-20 under a single large tree (maybe many more - impossible to tell). Saw them raise on hind legs to eat, and also eat from ground. Many lizard turds everywhere, of uniform color and consistency and almost like wood. Rarely saw what looked like a chase, more often two or more passed w/out incident. These lizards hand wave almost continuously when stopped, whether or not another lizard was visible (at least to me). They also sit w/ feet raised at times. Several times saw a large one go directly over a distance of several meters, then immediately enter a hole. Lizard tracks everywhere. Very wary, and we only got one juvenile. We also saw and collected one ♀ Tropidurus thoracicus. She was on a steep dune side in sparse low vegetation, mottled sun and shade. Very reminiscent of Uma in terms of habitat and general appearance.

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1 December (continued) Had lunch at El Golfo Restaurant overlooking Pacific – cheap food, old nostalgic music. Took nap, pickled lizards, went to Negritos to talk w/ John Bowling, drove a few km past Negritos (S.) and took pictures. Then back to the Quebrada by El Golfo (between Talara & Negritos) and looked among dunes (large plants – looks similar to Coachella Valley) for lizards but saw none. However, by 630-1700 here it is chilly and windy. Went by Julius Boos house (not home), took photos of Talara from above town, and went back to Hotel for showers prior to supper with the Bowlings at the club. Nothing seen on road between Negritos and Talara either way.

2 December Up early to be at the school in Negritos (the Belco American School) at 0730 to take 24 students (4th – 8th grades) in the field to Pariñes. Just after we arrived learned a strike had been called and we couldn't get a bus, afterall – typical for this trip! Instead took several cars and went to a closer valley where one of parents (a cowboy from Amarillo, Texas) had seen "iguanas". Arrived there ± 0830.

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2 December (continued)

Quebrada ≈5 Km (air) NE Negritos, Piura Prov., Peru

This is a fairly broad valley, bounded by barren hills and filled w/ low shrubs and trees and one "farm" at the NE end. We split into four groups and worked separately from ≈900 - 1145. Saw many Dicrodon guttulatum and collected 5 nice adults by noose and with a pellet rifle. I got one small Tropidurus sp. on a small wooden corral beside an abandoned adobe hut a few hundred meters W. of the farm house. As John Bowling's group returned to the cars from another valley to the E. of this one he spotted a Callopistes lying in front of a burrow, near a small tree, at the W. upper edge of the valley. Almost ~~noosed~~ it before it went in. I joined him, and we dug 'til ≈1330, a total of ≈7-8 m of trench, ≤1 m deep and .5-.7 m wide - difficult digging because wind blew it in almost as fast as we shoveled it out. About .5 m down we ran into sea shells, pot shards, and (?) old goat dung. Also several skins of Amphisbaena occidentalis ≈.3-.5 m down, seemingly fresh. Also

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2 December (continued)

several large blobs of urate, presumbably from the *Callopistes*. The funnel was generally 5-10 cm in diameter and rather firm-sided. Eventually we reached the lizard w/in ≈3 m of the surface and caught her(?). She went completely limp w/ closed eyes, tho opened them and her mouth when tapped on the head. (Remained this way for at least 30 minutes, then active - but resumed limpness whenever handled.). Meantime, one student had seen another large *Callopistes* in the hills, and a girl saw a third dash off near some dead black vultures. Below the crest (same ridge, further ≈SW from where we dug the ♀ up) Mark found a burrow under some trees in an embankment, with a tail drag mark and black feathers near the entrance. Looked impossible to dig up, and we left for Negritos @ 1345. Went to John's house for beer and then back to hotel in Talara to pickle lizards.

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3 December Went to Belco Schools for brief visit, then back to yesterday's site. I learned its name from John Bowling's father, and that it is near Verdun. Quebrada Acholoa, ≈ 5 Km (air) NE Negritos, Piura Prov. Peru. This place is reached by driving ≈ 2.5 Km N. of Negritos on the paved road to Talara, then turning E. at a small farm (with large corral & horses), going 0.9 Km then turning N. on a dirt road for ≈ 2.8 Km, then E on a dirt road for ≈ 2.0 Km. There are oil wells here and there, and the Bridas Oil Camp residences are visible to the NW before one drops into the Quebrada. We got a nice look at a Dusicyon crossing the road at 0830 hr as we drove to this place today. Walked around for 1 hour, but saw only vultures and Dicrodon — I watched one of the lizards run ≈ 15 m up an almost vertical slip face. After leaving we drove to Chiclayo via Sullana, Piura (lunch), Sechura, Bayovar, and Morope. Stopped for brief walk on beach north of Bayovar, and again at cliffs near Bayovar. Didn't see any Tropidurus peruvianus — too hot? After considerable troubles

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3 December (continued) (trouble finding road, got stuck, dug out w/ no problems) found the camp of the Condor Project, and found Carla Christenson and Jared Hoffman. Carla had worked on Del Solar's ranch near Olmos, and when we showed her the *Callopistes* she remembered seeing these lizards there. Jared, incidentally, had told me the correct colors of *Microlophus tschudii* and I'm sure that's what he saw; his observation was at ≈ 1100 AM on an overcast day in the last week of October. The site he showed me was open sand, near a tree. After leaving them, as I was driving E towards the junction of the roads to Sechura and Lambayeque, I looked toward the sea and saw a condor almost overhead – close enough I could see the red head and white under wings. As soon as we pulled over and piled out, it moved seaward and out of sight. Arrived Chiclayo ≈ 1830 w/ an almost empty gas tank. (NB: Our *Callopistes* had a palpable stomach mass when caught, so probably had fed that morning).

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4 December — 7 km S. Motupe, Cerro la Vieja, Lambayeque Prov., Peru
We arrived here ≈0830, and upon opening the trunk, discovered that a duffle bag w/ spotting scope, live traps, tripod, flash, telemetry equipment, and film had been stolen! Walked around and over the Cerro til 1045, and saw many *Dicrodon* and both species of *Tropidurus* - noosed 8. Mark found one and a *Phyllodactylus* under the same dead cow we turned on our first visit here. Returned to Chiclayo, ate at Restaurant Roma, paid rental car bill (≈$670!), checked out, flew AeroPeru to Lima, went to Pension Alemana. I became ill very suddenly ≈1600 w/ nausea and severe stomach cramps that lasted till I went to sleep.

5 December — To bank for money, called Nelly Carillo but she was out 'til tomorrow. Took it easy, as I'm still not well.

6 December — Spent ≈2 hours w/ Nelly Carillo and gave her 8/21 lizards - she gave me the necessary letter for getting the export permit. Went to the mercado on Avenida de la Marina (Cuadra 10) in Pueblo Libre. Back to room after supper, as I'm still a little nauseous and tired.

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6 December (continued)

some impressions so far. Lizard biomass must be very high in some parts of the Sechura Desert, on the basis of Dicrodon guttulatum - I saw up to 4 under a small tree, and, conservatively, 20 under a "bush" with a diameter of 10 m - there might have been several times that many. Plus Phyllodactylus, Tropidurus, and the occasional Callopistes. My impression was that there were many more juveniles, females (and subadult males?) than there were large adult males - those with the brightest blues and reds on the foreparts. It may have been the case that there was one such male / large group of "others" - but I'm uncertain and it might be very difficult to study this. Several times I saw a Dicrodon travel fairly fast (but not at escape speed) across an open space and then go down a burrow - as if it knew the location very precisely. As I probably mentioned earlier, these lizards hand wave extremely frequently, especially just after moving. The two species of Tropidurus I saw at Cerro la Vieja were very reminiscent of Sceloporus - occidentalis or an undulatus or an

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6 December (continued)

olivaceus, and T. koepckeorum of an occutti — although I'd guess both Tropidurus were more easily approached than S. occutti. The near absence of snakes was striking, and my impression from talking with people was that they are infrequently seen and that perhaps Oxyrhopus fitzingeri and Micrurus tschudii were the only ones that are "commonly" encountered. John Bowling knew of Leptotyphlops or Amphisbaena or both, tho I wasn't sure he could distinguish them. He and Julius Boos had heard of a viper found in the quebradas, but neither had seen one. Two things emphasize the scarcity of snakes: (1) we drove the road from Talara to Negritos for three night, to and from, w/out seeing any, nor did I see a dead or live snake in over 1800 km driven in NW Peru. (2) at no time did we see snake ~~trat~~ tracks in the sand, though those of lizards (mainly Dicrodon I suppose) were very common.

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7 December Sick as a dog! Allowed *Callopistes* to run loose in shower — when approached frontally w/ a hand, it open mouth threatens, hisses lightly once, and "nervously" thrashes the tail (posterior part of it).

8 December Still sick. Mark went to Chile tonight, since there's nothing for him to do here.

9 December Turned in paperwork for export permit. Still sick, getting better.

10 December Lurin, Lima Prov., Peru

Left Museo Javier Prado w/ Nelly Carrillo & the museum taxidermist, by taxi, then small bus to this town. Two attempts on my billfold, one by an old man and one by an Indian woman with a baby. Not a bad ride — we were sitting — and we arrived ≈10:30. Walked ≈3 km to the beach: SW of town through fields along dry river bed, just S. (?) of the huge Ruinas de Pachacamac, across Pan American Hwy, down to water's edge. Saw many *Stenocercus* sp. on the ground in cane, and on small trees and boulders along the way — and no other lizards where they were. Caught 8-10 w/ noose, not difficult. Males are olive green w/ yellow facial stripes

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10 December (continued)

and yellow ventral markings. These latter consist of a yellow blotch over the chest, another over the vent, and a midventral yellow stripe connecting the two. The yellow is quite bright, almost slightly orange. The females are drab gray and brown and smaller. Since this wasn't on my collecting permit, Nelly kept them all. Once on the beach and nearby we encountered several Tropidurus peruvianus. Some were seen foraging on wet sand, then running ±10m to the cobblestone shelf beyond the sand - into which they quickly escaped when chased. I photographed and caught 2 males that took refuge in small piles of grass & trash in the sandy, sparsely grassy field beyond the cobblestones. Nelly said that ~~when~~ she brought Paulo Vanzolini here several years ago there were rock outcrops and T. peruvianus was much more common. Walked back, had a coke at a roadside bar, and took bus back to Lima - one of those little blue ones w/ arms and legs dangling out windows, which was shorter than I was and in the aisle of which I stood for 1 hour!

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11 December Picked up export permit and visited Nelly at the Museo. Took numerous photographs for her. She says Bothrops barnetti ranges from Trujillo north, and B. pictus from thence south. Went to the mercado on Avenida de la Marina (cuadra 10) in Pueblo Libre in the afternoon.

12 December Paid bill and left for airport at 0730. Amusing argument about quality of Braniff service between older gentleman and clerk. Left on time, lizards in coat pockets, no problems. Great views and several photos as we flew down the cordillera and orthal valley of Chile. Met at airport by Fabian Jaksic and friend; no problems with customs. Learned that Fabian and Mark saw a Philodryas at Los Dominicos and caught a huge male Callopistes maculatus - they found it under a log which also covered its burrow (log was ≈1.5 m × ±.5 m). They dug up the burrow, ≈1 m & 15 cm under surface, paralleling and under a partially buried tree limb or root. They got the lizard though broke it's tail. They also collected Liolaemus fuscus, L. nitidus, L. monticola, and L. lemniscatus. After some supper and showers, a nice get together at Bernardita's house.

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13 December Rented car and visited Hermann Nuñez at the Natural History Museum. Saw live Tachymenis peruvianus, a slow moving, inoffensive snake. Examined the Callopistes Mark caught - only one feeble attempt to bite and no "going limp" a la C. flavipunctatus. After nap, took off to the hills near town. Fundo San Carlos de Apoquindo, Los Dominicos, 20 km (air) E. Santiago, Santiago Prov., Chile This is open grassland w/ scattered shrubs (Baccharis, Muhlenbeckia) and short Acacia trees, flanked by steep slopes of matorral and some nice rock outcrops. A very hot day, tho a little snow can be seen on the peaks of the nearby ridge. Photographed L. monticola on top of rock wall, ≥1.5 m high, basking perpendicular to late afternoon sun. Liolaemus lemniscatus in yellow grass and on ground - very cryptic and wary - you see only a fleeting shadow and this little lizard is 1-3 m away and often still under the grass. I suspect it of lateral undulation and limb folding, but the movements are so fast and obscured by the grass that I couldn't be sure. Saw an adult Callopistes maculatus cross the road and then run

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13 December (continued) along the edge of it. Paused, I jumped out for one picture and then we tried to close on it with the car, to no avail — ran off into a dense shrub.

14 December Picked up Hermann Nuñez and headed north. First stopped for breakfast in Lampa, ≈ 37 km (rd) N. of Santiago, near the E. slopes of the coastal range. Then drove ≈ 7 km N by road to a public park called El Taco de Lampa. This is a broad flood plain E of the foothills of the coastal range, with numerous shrubs, especially _Muhlenbeckia_ surrounded by very fine sand. Here we saw several _Callopistes maculatus_ active ≈ 10-1100 AM. One I saw was moving ahead of me on a path w/ a dark object in its mouth that appeared ≈ 2-4 cm in diameter, perhaps a scarab beetle. The other I photographed from ≈ 1 m beneath a bush — it head jerked several times vertically whenever I moved. The latter was a big one w/ much orange on the throat. Thence we drove on to Til-Til, stopping to photograph an _Athene_ burrow and the owls — there was a _Callopistes_ (?) tail drag mark in the entrance sand. Next spent a lot of time trying to reach Cerro Robles, w/out

14 December (continued) success. Eventually reached Parque Nacional de Cerro la Campana, and drove almost to the summit. Caught several *Liolaemus tenuis* on tree trunks, including a brilliant green male. Also saw 2 *L. schroederi* and noosed 1. Had a good empanada before starting the long drive back to Santiago via Quillota. Forgot to mention that we saw numerous caracaras and at least two nice Chilean eagles in flight (near the crest of the coastal range), and that we tried unsuccessfully to catch a small *Callopistes*. It ran into a burrow in a roadbank as we were driving on a dirt road on the coastal side of the highest ridge we crossed (ie., as we were unsuccessfully attempting to drive N. to Cerro Robles). It ran in a burrow and escaped from a back entrance ≈1 m up slope as Hermann dug after it. The day was marred by a bad argument w/ Mark and a flat tire on the Panamerican Hwy driving home.

15 December Went to permit office, successfully, and to bank. Had nice tour of Universidad Catolica and gave seminar on snakes.

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16 December Mark stayed behind and I left w/ Fabian Jaksic at 0800 for Tampa. Had breakfast and contracted w/ the restaurant owner to have kids collect us some *Callopistes*. Next drove over the coast ranges, stopping to photograph acacia savannah on the E. slope looking back down the valley. Drove via Quillota to Con Con, thence just landward of a large dune system to Quintero. It was cooler and somewhat foggy and overcast on the coastal side of the range. Finally stopped

Ritoque, 7 km (rd.) S. Quintero, Chile

This is a small group of houses at a delapidated pier on a cove, formerly (?) a prison for political prisoners. Facing the sea, there are low, regular, plant topped dune mounds, and here we saw several *Liolaemus nigromaculatus* — they were extremely wary, and we caught none. This was ≈ 1300 and relatively cool and overcast. Next we walked onto the steep boulder coast, actually a point, to the right of the pier. Here we saw many *L. nigromaculatus*, males and females, and by ≈ 1430 it was quite warm and sunny and they were

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16 December (continued) more easily noosed - we caught 19 and a single *Liolaemus lemniscatus*. The latter was basking on a small low boulder in grass, near the pier. It curled its tail in the air as I approached. The *L. nigromaculatus* were noteworthy for their aggressiveness - they twisted and bit very fiercely. Several seen to head bob, and feces were prominent on some of their boulders. We observed two feeding, both by short rushes ~~on~~ at small items - one (still in mouth when noosed) was a little (≈5×2) tan coleopteran. Left ≈1530 and drove N. along the coast a few km to a restaurant overlooking the beach. Had erizos (sea urchin gonads raw - I ate ≈½ my bowl - they're awful) and some great seafood empanadas. Then drove back to Tampa by same route, stopping to photograph overgrazing (goats) as we crossed the coast range. Bought a nice *Callopistes* from a horse trainer in Tampa for $2.00 and arranged to return tomorrow for more. Nice day - no problems, lots of lizards, and a pleasant companion!

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16 December (continued) at ≈2330 weighed and measured the lizards from today, as follows:

Liolaemus lemniscatus 48+23+37, 3g

L. nigromaculatus 65+12+35, 11g ♀ (very red)

" " 66+89 (broken by me), 9g ♂

" " 73+11+28, 13.5g ♂

" " 67+94, 11.5g ♂

" " 74+10+28, 14g ♂

" " 72+56+40, 14g ♂

" " 83+12+54, 18.5g ♂

" " 69+31+25, 11.5g

" " 63+38+33, 13.5g

" " 71+23+40, 13.5g

" " 65+24+13, 10g

" " 64+43+12, 9g ♀

" " 71+103, 11g

" " ~~6~~59+84, 6.5g

" " 60+81, 8g

" " 58+27+46, 6.5g

" " 63+85, 7.5g

" " 54+14+36, 4.5g

" " 50+14+34, 4g

These are snout-vent plus tail as original + regenerated. Those for which sex isn't marked are uncertain, but at least some are females and some are probably males.

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17 December Went to Los Dominicos ≈10:00 w/ Fabian and Patricio Sanchez, head of the Instituto de Ciencias Biologias at the Universidad Catolica. Overcast and cool, and we saw and caught only 1 Liolaemus lemniscatus. Driving back down a dirt road we saw a caracara in the road pecking and releasing a lizard, which it flew off w/ when we approached. Fabian thought the prey was probably a L. monticola, and if so it was a large one. Next drove to Lampa and bought 4 freshly caught Callopistes maculatus from some kids and collected 2 fresh feces from the barrel they were in. Had great lunch – fried empanadas and calzuela of beef, squash, green beans, potatoes and rice – Back to Universidad Catolica for goodbies. From ≈1600 – 1730 searched a rock wall at Los Dominicos for Liolaemus monticola and caught 5/8 seen. There was a stiff, chilly wind blowing perpendicular to the wall, and all of the lizards were on the leeward side; none of them were perched on tops the wall, as they were under warm sunny conditions on the 13th. Fabian saw a Philodryas chamissonis

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17 December (continued) ≈80 cm long at the base of the rock wall, into which it escaped. Measurements and weights for the _L. monticola_ are:
63+55+25, 8g; 65+30+10, 8g; 58+21+61, 6g; 63+109, 8g; 60+55+15, 7.5g.

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Calif: Contra Costa, Napa, San Bernadino,
Inyo, Kern, Alameda, San Joaquin Cos.
Oregon: Lake Co.
Calif: San Bernadino, Contra Costa Cos.

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1981

17 January Tilden Park, Berkeley, Contra Costa County, California
Elizabeth Pierson, a graduate teaching assistant in Natural History of the Vertebrates, saw a small *Thamnophis* partially out of a hole here on this date.

8 February Briones Regional Park, Contra Costa Co., California
Entered the Alhambra Valley Rd. entrance at ≈1200 w/ M.A.R. Koehl and walked about til ≈1500. Cool and light drizzle. Saw hundreds of *Taricha* on dirt road leading to the lagoons and in the water, and various stages of courtship, egg-laying, and egg eating. Heard a few *Hyla regilla* ~~and~~ around the lagoons (none seen and no eggs) and found a few *Batrachoseps* under logs. While we ate lunch under a small oak grove a young mule deer walked slowly by, feeding. It seemed not to ever see us, perhaps because we were motionless and because there were several nearby snags on its horizon. About 10 m from us it suddenly froze, flared its nostrils repeatedly and moved it's head laterally several times as if trying to see whatever it smelled. Nice walk. Also saw feces

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8 February (continued) of some cat deposited on a fresh gopher mound, but wasn't sure if they were of the feral or bob variety — they weren't especially large (≤15 mm ϕ). Saw several dead newts in cow tracks.

9 February Briones Regional Park, Contra Costa Co., California
Went w/ Jerry Klein, chemical engineer visiting from Oak Ridge. Went in Bear Creek entrance and up to old archery range (top of hill straight ahead through the gate). Sunny, warm. Found several large ♀ Taricha under logs; several Ensatina, including clusters of 4, 2, and 2 very small ones; many Batrachoseps; 2 Aneides lugubris, including 1 juvenile and one small adult male w/ scars on its head (left side, posterior) and tail base as in the ones I photographed from Año Nuevo; 1 juvenile Eumeces; 1 juvenile Gerrhonotus multicarinatus; and 1 adult Contia tenuis. The snake and lizards were under logs in the center of the meadow, fully exposed to sun, while most of the salamanders were on the shady edges. Saw two

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9 February (continued) sets of cat feces, one on the road near the parking lot and one near the top of the trail to the archery range — both seemingly full of Microtus. Next drove around to other entrance and walked to the lagoons. Saw plenty of newts, but not nearly as many as yesterday and they seemed more wary. Seemed that I saw more towards mid-pond then yesterday.

20 February Briones Regional Park, Contra Costa Co., California

Went to the Alhambra Valley entrance w/ graduate students and Zool. 107 class. Cool, sunny, very windy. Met at 0800, walked to lower lagoons, where we saw many fewer Taricha than two weeks ago — also some well developed eggs, some hatched masses, and some eaten masses. Several Hyla regilla pairs and a few egg masses. At the second pond, a Rana aurora (?) egg mass ≈40 cm from shore w/ tads hatching — whole clutch is ≈ round, floating, ≈20 cm diameter. At the larger sinodesitch lagoon no Clemmys but many Taricha — again it looks like this pond is delayed relative to the

Freere, H.

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20 February (continued) lower ones - still many clasping and laying pairs. a large (12 cm SV) Rana aurora dead by the willows, w/ no apparent wounds. Found two Sceloporus occidentalis in mud under large rock by small corral above the lagoon - toe clipped them, a juv ♂ & large adult ♂. saw ≥1 golden eagle, ≥1 marsh hawk, 1 red-tail hawk, 1 red-shouldered hawk, 1 pair of white tailed kites, and several kestrels. Back to cars ≈ 1200. Forgot - 7 juv S. occidentalis under one small log top of hill behind lagoon; 1 juv Gerrhonotus multicarinatus under another small log nearby. Walking back saw 3 active basking S. occidentalis and a few Batrachoseps under logs.

21 February Briones Regional Park, Contra Costa Co., California Another 107 field trip, weather like yesterday but a little warmer. animals same, except no Gerrhonotus, no eagles, 2 Ensatina, and 1 Clemmys marmorata (carapace ≈ 10 cm) ♀ climbing up onto a willow trunk. Nice trips.

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2 April — SE side of Phoenix Lake, W. of Ross, Marin Co., California
D.B. Wake brought me 3 Diadophis punctatus in a plastic bag, 1 of which had regurgitated a Batrachoseps attenuatus and its autotomized tail. I pickled the salamander (HWG 1063) and measured the Diadopis (SV + tail): 305+70; 210+45; 143+30.

19 April — Mt. St. Helena, Napa Co., California
Hiked to near base of one peak, ≈ 6-8 mi round trip, w/ Kristine, Kurt, and Carl Tollestrup. Cold and foggy, yet when some sun came out briefly we saw numerous Sceloporus, including some S. graciosus. These were on rocks and snags, and some escaped into holes under imbedded rocks.

23 April — Drove to Sacramento in early afternoon, and as I crossed the range around Fairfield I saw a hawk (red-tail?) fly over dangling an unidentified snake.

8 May — Left Berkeley last night at ≈1900 w/ Kurt Schwenk, Robert Seib, and John Carothers. Arrived in Barstow ≈ 3:30 AM and slept on side of road 'til after 7. Breakfast in Barstow then on to
Pisgah Crater, San Bernardino Co., California
Arrived ≈ 8:30 AM and parked near where the road turns N. across the

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8 May (cont.) RR tracks. Walked from there across the lava, parallel to Natl. Trails Hwy, to a point well W. of Jeff Kaufman's study site (this is a few hundred meters W. of where there are currently two small RR buildings next to the tracks). Arrived back at car ≈1430 (this is PDST). We saw few lizards 'til ≈ noon, after which we saw quite a few _Uma_, _Dipsosaurus_, and _Cnemidophorus_. Early in the AM we noosed a pair of _Urosaurus graciosus_ on the dead, E facing low branches of a creosote bush. ≈1300 I photographed and noosed another asleep (?!) on low grass in dune sand. At 10:25 AM Robert sighted a _shrike_ perched on a lava boulder, and through binoculars I saw that it was holding an adult _Phrynosoma platyrhinos_. The _Phrynosoma_ when set free was immobile, greatly flattened, and tilted toward the shrike. When we rushed the shrike to attempt to get the lizard, it flew off and circled 90° to a ridge ≈100 m away. Shortly thereafter it flew nearer to us, landed on a

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8 May (cont.) creosote bush, and I could see through binoculars that it was eating a small object (piece of lizard?). Then Robert spotted an adult *Crotaphytus bicinctores* resting on a lava spire ≈ 50 cm high, which I noosed and photographed. John found two *Gopherus agassizi* on the lava flow at an area of clay-like soil, where there were two fairly freshly dug areas. Were these places where the tortoises "mined" minerals a la R.W. Marlow? One was a large and one was a medium tortoise. I saw and missed 1 *Crotaphytus* and John caught a juvenile. We later (≈ 3:30 PM) stomach flushed both that we caught but recovered no food. Saw numerous *Uta* but caught none. Left ≈ 1430 and ate at a restaurant in Ludlow, where there was a huge sign about what to do if someone choked on their food on the exit door, very visible as we were *eating*! Started east on Natl. Trail Hwy.

3 mi W. Amboy, San Bernardino Co., California

Stopped here and caught 5 *Sauromalus* at the N. edge of the Amboy Crater lava flow, where it is closest to the hwy.

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8 May (cont.) saw at least 2 others. Drove on to Joshua Tree for a very dirty motel, a flat tire, dinner at Arturo's Mexican Restaurant. Left ≈2030 to road hunt between Twenty-nine Palms and the dry lake on the Amboy Rd. Saw 4 DOR Crotalus cerastes and 2 AOR Coleonyx variegatus (one ~~and~~ a gravid ♀). Also 1 DOR Phrynosoma platyrhinos.

9 May Up ≈0700, breakfast in Yucca Valley, and on S. Got a DOR (fresh) Arizona elegans at the intersection of Snow Creek Rd. & Hwy 111. Then drove up the canyon. Hunted on boulder strewn slopes just west of Snow Creek Village, at the end of Snow Creek Rd. Saw many Uta, Petrosaurus, Sceloporus orcutti, Sauromalus obesus, (also Cnemidophorus w/ lep. larvae) No snakes. Left ≈ noon, drove to La Cahuilla County Park for lunch and rest. Saw a Kestrel fly over numerous times for ~~≈~~ ≥ 2 hrs w/ a Cnemidophorus in it's talons. ≈16:30-1800 on rocky slopes ≈1 mile SE Cahuilla Park - saw Uta but nothing else. Road hunted to Barstow via Lucerne Valley, got motel.

10 May Drove to Darwin Falls via Kramer Jct. & Trona. Saw DOR Pituophis (RLS 7996) (saved) and AOR Gopherus (10:20 am) the latter at Jct 395 and Trona Road. Stopped at rock piles 12.0 & ~~16.4~~ 13.5 miles N. jct. 395 & Trona Rd.

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10 May (cont.) Saw Sauromalus, Sceloporus magister, Uta, Cnemidophorus. There is a dramatic contrast between these sites and Pisgah Crater. The latter was very dry, there were very few flowers, and I saw few insects. At the more northern localities (including the Darwin Falls area) there are many flowers, including barrell & prickly pair cacti, creosote bush, and others I can't ID. Also, at the N. sites we saw and heard many diverse insects. If anything it was hotter at Pisgah. We saw a fresh DOR (not saved, ant. missing) Masticophis flagellum 16.4 mi N. jct 395 & Trona Rd. Got gas and food in Trona. Stopped at intersection of Panamint Valley Rd. & Hwy 190 to noose several Dipsosaurus – which were concentrated around the taller creosote bushes adjacent to Panamint Valley Rd. We noted a marked decrease in them among the shorter, less lush bushes away from the road. Saw 2 Crotaphytus bicinctores as we drove in the Darwin Rd. to park spot, and caught one. Got 3 more walking canyon walls, then walked to the falls. Saw several juvenile Bufo boreas (punctatus hybrids?) and Robert found 3 fresh Felis concolor

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10 May (cont.) tracks at streamside in the lower part of the canyon. They were in damp mud ≈ 1630 - since the water rises every night and falls during the day, this cat must have come down only a few hours earlier. Ate supper and road hunted 2000-2300. Got AOR C. cerastes (4), C. mitchellii (2), Leptotyphlops (1), Trichanura (1), and several Coleonyx. Slept till 0800, even though we woke up in full sun.

11 May Darwin Falls Canyon, Inyo Co., California
Walked around the canyon - numerous Uta, Callisaurus, Cnemidophorus, Sauromalus, and I noosed and photographed 1 Crotaphytus. Kurt spotted and we photographed a subadult (?) Sauromalus ≈ ½ m up in a creosote bush taking fast gulps of flowers; the bush swayed each time the lizard moved. It ate for a few seconds as we watched from many meters downslope, and then it abruptly descended. John saw a red-tailed hawk w/ a Sauromalus. Robert caught a clasping pair of Bufo punctatus. We left ≈ 1130, caught 2 Crotaphytus as we drove out on Darwin Road. Saw many Sauromalus along 190 as we drove to Olancha - where we had

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11 May (cont.) an outstanding lunch. Saw what I thought was a Crotaphytus vicinetores on a boulder near the Cal City turnoff from Hwy 14. It was ≈ 1.2 m above ground and escaped in a burrow at the boulder's base. Stopped in Joshua trees on E slope of Tehachapis & caught Uta (gravid ♀) & Xantusia. Very windy. Someone had turned many of the logs recently and not replaced them. We left for Berkeley ≈1630 hrs.

20.0 miles SE Bakersfield (Hwy 99) on Hwy 58, Kern Co., California

Large adult Lampropeltis getulus DOR at ≈ 1700. Snake smells pretty bad but OK outside - early morning kill? This locality is on grass slopes of Tehachapis going down into the San Joaquin Valley.

15 May Briones Regional Park, Contra Costa Co., California

Worked from Bear Creek entrance, 0800-1200 h, w/ ≈50 Zool. 107 students and 5 teaching assistants. Saw Pituophis, Eumeces, Gerrhonotus multicarinatus, Sceloporus, Thamnophis couchi, T. elegans, Diadophis, Contia, Coluber, Taricha, Hyla, Ensatina. Taricha were adults in a pond at the end of the valley, and were observed as they periodically surfaced from the center of the pond, gulped air, and immediately returned to the bottom. The Coluber and T. couchi

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15 May (continued) were crawling when found. The Hyla were numerous transforming individuals around the margin of the above mentioned pond.

16 May Briones Regional Park, Contra Costa Co. California
Returned again today w/ other half of the Zool. 107 class. This time went immediately to old archery range, where it seemed cool, shady, and relatively moist. Saw 2 Ensatina, 2 Batrachoseps, and 1 G. multicarinatus there. Back down in the valley, including the pond at its upper end, we saw several Sceloporus, Gerrhonotus, and a Thamnophis couchi (perhaps the same ♀ as yesterday).

22 May Left Berkeley just before 2400 last night and drove to California City w/ Kurt Schwenk and James Stewart (Univ. Tulsa, former MVZ student). Walked around creosote scrub at SW corner of (and off/of) the Desert Tortoise Reserve, ≈5 mi N. California City. Saw 3 Gopherus and quite a few lizards: Cnemidophorus, Uta, Callisaurus, and Phrynosoma platyrhinos. 4/5 Phrynosoma we got while driving slowly on a dirt road. Got room at the Driftwood and napped til ≈5:30. Ate supper in Mojave then drove out Oak Creek Rd. 2.9 mi W (?) of Mojave we turned Joshua tree logs for ≈45 minutes — got ≈20

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22 May (continued) Xantusia vigilis, 2 Sceloporus magister, and 1 Uta. I found a very large scorpion under one log and caught it. Next drove to "Grasshopper Wash" - place where Kristine Tollestrup and I found Phrynosoma coronatum - and turned several sheets of tin. By then it was dark (≈ 2230) and we rode hunted via Willow Springs Rd, Oak Creek Rd, Hwy 14, Phillips Rd., dirt roads E. of Neuralia Rd., and Neuralia Rd. Got a nice large gravid (?) C. cerastes w/in ½ mile of where I got an even larger gravid ♀ 2 years ago. Also 2 Rhinocheilus lecontei AOR, which seemed to be actively crawling. Later I palped the Crotalus to see if her girth might be due to food but couldn't feel anything.

23 May After breakfast we headed for Pisgah crater, interrupted by a flat in Barstow. First stopped at a black lava flow a few miles W. of usual spot (near Hector Rd exit from I 40). Saw numerous Cnemidophorus, Uta, Callisaurus, a few Uma, and a couple of Sauromalus also several Dipsosaurus and bones of a large Gopherus. Photographed

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23 May (continued) a large adult ♂ *Sauromalus* and then caught it out of a crevice for RCS to paint. Next drove to usual stopping point N. of the crater. Saw *Callisaurus* and *Crotaphytus*, but by now (1215) lizards are hot and very wary and I can't get my damaged pole close enough. Pisgah is still dry looking, tho there are some buds on the *Larrea* and an occasional yellow flower. Also seems I'm seeing more flies and grasshoppers than we observed two weeks ago. Caught a few lizards. Drove to Mojave and started out Oak Creek Rd, had flat, fixed it in Mojave, and returned to a Joshua Tree spot 2.9 mi from town. Got ≈25 *Xantusia*, 2 *Sceloporus magister*, and a *Uta*. Drove to "Grasshopper Wash", 3.7 mi from Oak Creek Rd on Willow Springs Rd (toward Tehachapi). Turned trash and drove dirt road looking for *Phrynosoma*. Found adult *Eumeces gilberti* under a sheet of plywood, and a *Uta* under another. Also two *Scolopendra*. Ate supper in Mojave, then road hunted on Phillips Rd. Neuralia Rd., and Cal City Blvd. (the part that connects to Hwy 58). Got

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23 May (continued) <u>Pituophis</u>, <u>Arizona</u>, <u>Chionactis</u>, and <u>Crotalus scutulatus</u>.

24 May Drove to Darwin Falls by way of Randsburg and Trona. Stopped at rock pile S. of Searles Rd Jct. - saw <u>Sceloporus magister</u> and <u>Uta</u>. Arrived at Darwin Falls ≈1330, after stopping at Jct. Panamint Valley Rd & 190 where we saw <u>no</u> lizards - in contrast to two weeks ago. Noosed a <u>Crotaphytus bicinctores</u> on a rock above the parking spot & pickled it w/in 1 hour. On walk to falls saw many <u>Bufo boreas</u> adults and tads. Drove to turn off above the usual place - this is 6.4 mi from 190 on Darwin Rd., and then went 1.2 miles to where several people from Berkeley were camped. Ate supper and at dusk went a short distance down the road to where Ed Heske found a <u>Crotalus mitchelli</u> among plants on the canyon floor. As we drove out to road hunt after dark I got another crossing the dirt. Road hunted on Hwy 190 'till ≈2330 - got several <u>Coleonyx</u> and 2 <u>Phyllorhynchus decurtatus</u>.

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25 May / Walked around canyon after breakfast but saw only *Uta* and *Cnemidophorus*. Drove to Olancha for lunch and ≈1300 drove up Walker Creek Canyon. This is reached by turning west on a dirt road, Walker Creek Rd., and driving up into the canyon. Saw *Sceloporus occidentalis* basking on boulders and Kurt saw a "large, greenish" *Crotaphytus* (by which he meant in comparison to those at Darwin Falls). Driving out we saw a *Pituophis* on the dirt road at 1445 hr (overcast) in a low sagebrush scrub area. It has a recent (but not fresh) wound on the neck. Returned to Berkeley via Tioga Pass and arrived ≈ midnight.

29 May Briones Regional Park, Contra Costa Co., California
Went to Alhambra Valley entrance w/ Zool. 107 class. Walked to past lower lagoons & found 2 *Pituophis* active in grass. I left at 0945 but later they saw more *Pituophis*, *Coluber*, and lots of *Sceloporus*.

30 May Briones Regional Park, Contra Costa Co., California
Same place w/ another 107 class - still no *Crotalus*. Found *Pituophis* in grass, *Rana aurora* in water at lower Marsich lagoon, *Thamnophis elegans* in grass near gate

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30 May (continued) below lower Marisich Lagoon, *T. couchi* in lower Marisich Lagoon, *Coluber constrictor* on bank by little Sindicich Lagoon, and *Clemmys marmorata* basking on log in Big Sindicich Lagoon near shore.

3 June Corral Hollow Area, Alameda/San Joaquin Counties, California

Left Berkeley for here ≈1630, spent some time watching birds on Mines Rd., then started down Tesla/Corral Hollow Rd. Before dark (still sunny, ≈1900) found a ≈4' *Pituophis* crawling across pavement - extremely aggressive, hissing, striking, tail vibrating. Around Castle Rock we saw owls, *Anthozous*, and horned larks. After dark road-hunted from the Pass to I5 twice, and found numerous *Scaphiopus hammondi*, 1 large *Lampropeltis getulus* crawling across the road, and a *Lynx rufus* that walked quickly across in front of us.

8 June Mallory Ranch, Morgan Territory Rd., Contra Costa Co., California

arrived here ≈1000 hr w/ Cindy Mayer, Frank Hall, and 3 other Cal Fish & Game biologists and toured the ranch by truck

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8 June (continued)

and on foot until ≈1400. This a steep, ≥1000' deep, perhaps 1 mile long canyon that opens S. We drove down the E side, up the back and S along the W. ridge. Cindy found an adult Pituophis crawling among boulders in open grass, and one of the biologists found a "14 inch" Crotalus among boulders in short chapparal at the S. end of the ridge. Saw many Sceloporus occidentalis everywhere and perhaps some S. graciosus – especially at the place where the Crotalus was seen. Also at that place I watched a pair (?) of Cnemidophorus tigris moving under bushes in the chapparal.

1.2 mi N. Alameda Co. line on Morgan Territory Rd., Contra Costa Co., California

At 1400 we found a DOR ≈1m Masticophis lateralis here, dead perhaps ≈2 hours and certainly killed since we drove in this morning. There is a distinct orange suffusion to the lateral stripes, and the snake seems in every respect to be M. l. euryxanthus. There is no chapparal nearby – this is an area of rolling grassland but the E. side of the road is bordered

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8 June (continued) by a ravine w/ scattered oaks. The spot is 0.4 mi N. of a mailbox w/ the address of 12520 Morgan Territory Rd. Took photos.

Ordway Ranch, Vasco Rd., Contra Costa Co., California

Spent about 1 hour here walking in oak woodland (including small, boulder-strewn canyons), including the place where two juvenile *Masticophis lateralis* (HWG 1105-6) were collected in April by Fish and Game personnel (they saw 4 in two days at this site). This is an enormous cattle ranch of grassland (from Vasco Rd W. to the base of the E-facing slope), bounded by the steep ridge that is also the E. boundary of the Mallory Ranch. The lower slopes are mainly blue oak, and it is a truly beautiful place!

30 June Went to Corral Hollow Rd, Alameda-San Joaquin Co., to Rd hunt w/ Roger S. Thorp, a herpetologist from England. Found a just-hit subadult *Pituophis* on Mines Rd., a very large AOR *Pituophis* on Tesla Rd., and an AOR yearling *Crotalus viridis* on Corral Hollow Rd. It got quite chilly just after dark, and we saw the last snake just as darkness fell. All snakes saved.

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1 July Sunol Valley Regional Wilderness, Alameda Co., California
Turned on Geary Rd ≈0830 hr, sky sunny & warm. Lynx rufus crossed road from a steep slope to the SW toward high grass and trees to the NE. I stopped and got a good look - seemed curious at the clicking noises I made, but disappeared as I started to walk across the road to it. ≈100 m further there are 3 Urocyon (2 seem to be pups) on the side, and they also allow fairly close approach. There are literally 100s of Spermophilus beecheyi everywhere, even climbing on tree trunks (slanted, downed ones that is). Arrived at entrance to Sunol Wilderness Park and met naturalists including Tony ?, who is stationed at Del Val - he's seen 3 Felis concolor this year! Drove on a dirt road (≈3 miles?) to Camp Ohlone, where I gave a talk on reptile biology. On the way found a DOR Lampropeltis getulus w/ obvious food in it - later proved to be a fairly big Coluber constrictor. ≈1100 hr, as we sat in the shade in an open area at the camp, a large Crotalus viridis crawled

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1 July (continued) behind us. It had a short, parallel sided rattle string, was well over 1m long, and didn't have palpable food. Also scarcely rattled, though it struggled violently when pinned. A very green snake. The naturalists report that Crotalus is very common here, plus Cnemidophorus tigris, Phrynosoma coronatum, Lampropeltis zonata, and Hypsiglena — and maybe Gambelia. It is a floristically very diverse, topographically diverse, beautiful place. Returned to Berkeley ≈1400.

9 July Flew to Seattle, met Kristine Tollestrup, and drove to eastern Oregon to look for Phrynosoma douglasi. Drove south through Portland, to Redmond, then W. past Sisters to Indian Ford Campground for the night.

10 July Next morning looked around in an area of conifers near Santiam Pass, but no lizards. Then drove to Fort Rock, Lake Co., arriving ≈1400 hr. Walked around 'till ≈1600 but saw only Uta and/or Sceloporus graciosus. Saw numerous live and dead Lepus and lots of feces, and my impression is that the 'labyrinthine pattern of open space

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10 July (continued) among the sage is caused by the rabbits. Fort Rock is a large ~~two~~ sickle shaped plug that juts out of flat sage country. As one drives on Hwy 31 from La Pine, the landscape changes from spruce-fir (?) to yellow pine to pinyon/juniper on slopes to sage flats, and the area around Fort Rock is largely uninterrupted sage flats w/ very sandy soil. There are occasional lava Rock outcrops and a few other plants (eg. Indian Paintbrush). Late in the afternoon we stopped ≈1 mi N of Fort Rock, to turn numerous boards just N of a hay field but saw only Uta and/or Sceloporus. I inadvertently smashed an ad ♂ S. graciosus that was in a large, very old log I tore open; collected it. Also stopped 5.0 mi NNW Fort Rock PO but saw nothing. Went to La Pine for supper and a motel.

11 July 5.0 mi NNW Fort Rock Post Office, Lake Co., Oregon
arrived here ≈1000 hr to find ground hot, though air still cold. Walked around to the N of the road til ≈noon, then S. of it for ≈30 minutes. The general area is sketched here:

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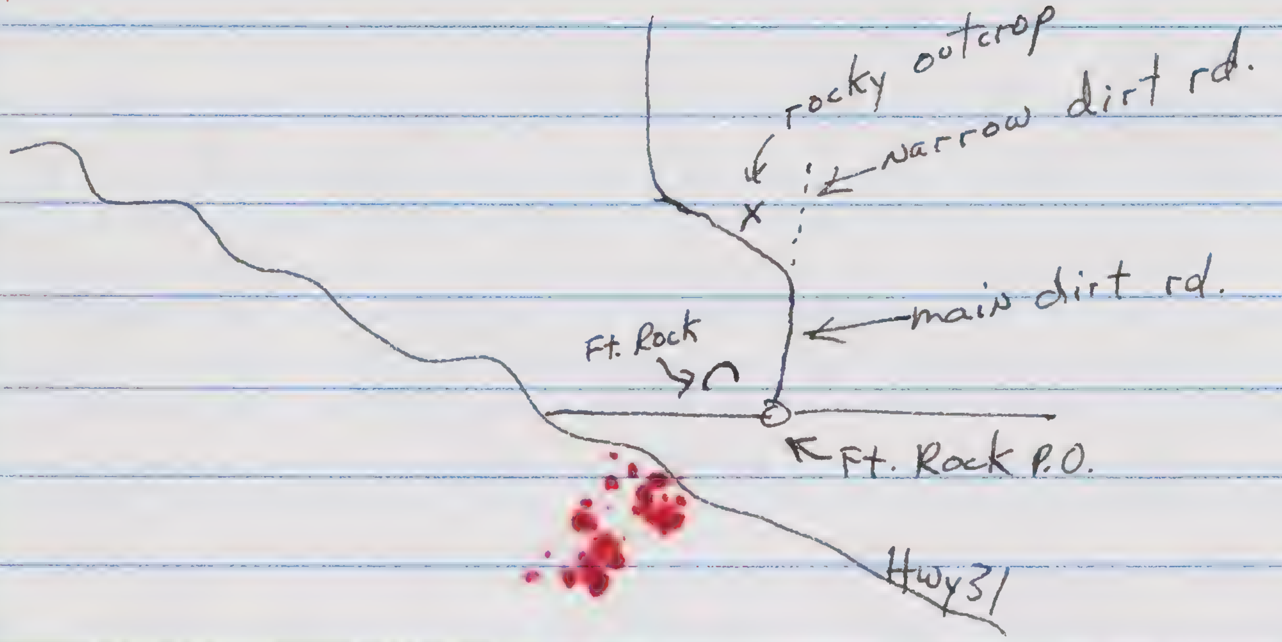
11 July
(continued)



We found 3 Phrynosoma douglasi in a fairly small area (≈ 10-15 m on a side) bordering on the rock outcrop. First was a ♀ ≈ 80 mm TL that was in full sun at the edge of an ant mound & very hard to see. Second was a small ♂ (38+12 mm) that I found when it ran a short (≈10") distance on the rock outcrop. This place was ≈ 2 m from a ~~court~~ displaying ♂ S. graciosus, which I collected. The third P. douglasi was on the shady side of a rock, ≈ .5 m from an ant nest. According to Kristine, each of these was near a 'red ant' (Pogonomyrmex) nest, but their feces and the other Phrynosoma scats she checked here contain another black & red ant.

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11 July (continued) The latter ant occurs in the trunk of sage, so perhaps that is where P. douglasi forages. K.T. also found a dried and partially eaten (bugs?) Eumeces on the outcrop. We left ≈1300 and drove to Tacoma via Santiam Pass and Salem.

17 July Left Berkeley ≈0730 hr and drove to Pisgah Crater, San Bernardino Co., w/ H. E. Braker. Bought groceries in Bakersfield and arrived for supper at Pisgah ≈1900. Started to road hunt ≈2100, just after large, orange ≈full moon came up. Drove E to RR, then ≈10 miles W, then to RR and stopped. Got two small Crotalus cerastes. Just after midnight something stung/bit Beth (we found ant in her sleeping bag) and because she developed a whelt, axillary soreness, and numbness in her arm and hand, we drove to Barstow. Got gas and coffee and pancakes, and by then she was better so we returned to camp. Saw a Vulpes macrotis and a Canis latrans cross the road going back.

18 July ~~Pisgah Crater, San Bernardino Co., California~~
Walked around from ≈0900 – 1145 hr, starting at Jeff Kaufmann's Uma study site (this is ≈SSW of a little

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18 July (continued) green building by the RR). Saw several medium and large *Cnemidophorus* (caught 4), several medium & large *Uma* (caught one of each size) and numerous hatchling *Uta*. No other lizards, no tortoises, no predatory birds. Very hot, no flowers. Drove to California City and got room at the Driftwood, (104F in shade at motel, 1500 hr) showered and napped. Drove out to the Desert Tortoise Visitor Center and walked around their trail during a great sunset over the Tehachapis. Saw bobcat and canid scats on the nature trail. Road hunted Neuralia Rd to Phillips Rd to Hwy 14, back across Neuralia and on to Tortoise Reserve via 2 miles of dirt, then back via Phillips to Hwy 14, and back to Cal City via Neuralia Rd. Saw only one snake, a .5 m *Pituophis* (AOR, 2209 hr, no palpable food, not kept) 3.6 mi N. Cal City Blvd on Neuralia Rd. Full moon.

19 July Early breakfast, then out to W. side of Tortoise Reserve. Saw several *Callisaurus* in the wash, a pair of *Cnemidophorus* in which the ♂ (?) was hopping w/ tail arched (photo), a live adult *Gopherus* (#105) at 0855 hr, an adult shell that was marked "CAC 5-5-80", a dead juvenile under burro bush w/ a large hole in the carapace (photo), and

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1981

19 July (continued) some *Uta* (including hatchlings). Driving out we caught an ad ♂ *Phrynosoma platyrhinos* on the road near the "Til Ohe Ranch" at 1035 hr. Left Cal City ≈12 and drove to Darwin Falls via Trona. Saw ad. *Crotaphytus* in the talus slope just below the falls as we walked out ≈1830, in shade. also *Callisaurus*, juvenile *Uta*, and many very small *Bufo*. Road hunted from Panamint Valley Rd to the vista point ≈10.3 miles W on Hwy 190 twice, but saw only ≥1 *Coleonyx* and 1 *Phyllorhynchus* AOR. One gecko was an adult nongravid ♀ at the jct of Darwin Rd and Hwy 190, which we released.

20 July Up early, walked slowly to falls and stayed 'til noon. Saw numerous *Callisaurus* in the dry wash part of the canyon, but *Cnemidophorus* only in the mesic stream-side situations - I even watched one forage on a large boulder in the stream in full shade. collected 7 *Bufo boreas* active in and near aquatic vegetation in shade. Left after 12 and had lunch in Olancha. Then stopped in sparse Joshua tree area on Hwy 178 just W of Robber's Roost - got one *Xantusia* under a

Greene, H.
1981

20 July (continued) log and saw a subad *Sceloporus magister*. Next drove through Kern River Canyon, stopping for a swim at "Sandy ?", a sort of picnic spot reached via the second R turn after taking the Borel / Miracle Springs Camp turnoff. This is steep slopes w/ lots of grass, some oaks, poison oak, Coulter Pines and many boulders. Here saw several *Sceloporus occidentalis* on boulders among trees, near the river. Saw at least two *Uta* on a dirt bank around shrubs along the road just below where we parked. Arrived Berkeley ≈ 2AM on the 21st.

22 July Today Ward C. Russell brought in an enormous *Thamnophis couchi* that he found 6 feet under water in a fish trap. I weighed, measured, and photographed the snake (HWG1129). (Correction: crayfish trap.)

10 8-29